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CATALOGUE OF  
INTERNATIONAL  
GEOLOGICAL / GEOPHYSICAL  
CRUISE INVENTORY  
( IGGCI )

SAMPLE AND TRAVERSE  
LOCATION PLOTS

Prepared for  
WORLD DATA CENTER A  
Oceanography



by  
THE NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL  
DATA CENTER

World Data Centers conduct international exchange of geophysical observations in accordance with the principles set forth by the International Council of Scientific Unions. WDC-A is established in the United States under the auspices of the National Academy of Sciences.

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Oceanography  
Washington, D. C. 20235

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March 1979

## WORLD DATA CENTER A

World Data Center A consists of the Coordination Office and seven subcenters:

World Data Center A.  
Coordination Office  
National Academy of Sciences  
2101 Constitution Avenue, N.W.  
Washington, D.C., U.S.A. 20418

Telephone: (202) 389-6478

### GLACIOLOGY:

World Data Center A,  
Glaciology  
Institute of Arctic and  
Alpine Research  
University of Colorado  
Boulder, Colorado, U.S.A. 80309

Telephone: (206) 593-6506

### ROTATION OF THE EARTH:

World Data Center A,  
Rotation of the Earth  
U.S. Naval Observatory  
Washington, D.C., U.S.A. 20390

Telephone: (202) 254-4023

### METEOROLOGY (and Nuclear Radiation):

World Data Center A,  
Meteorology  
National Climatic Center  
Federal Building  
Asheville, North Carolina, U.S.A.  
28801

Telephone: (704) 258-2850

SOLAR-TERRESTRIAL PHYSICS  
(SOLAR AND INTERPLANETARY  
PHENOMENA, IONOSPHERIC  
PHENOMENA, FLARE-ASSOCIATED  
EVENTS, GEOMAGNETIC VARIA-  
TIONS, MAGNETOSPHERIC AND  
INTERPLANETARY MAGNETIC  
PHENOMENA, AURORA, COSMIC  
RAYs, AIRGLOW):

World Data Center A,  
Solar-Terrestrial Physics  
Environmental Data  
Service, NOAA  
Boulder, Colorado, U.S.A. 80302

Telephone: (303) 499-1000  
Ext. 6467

### OCEANOGRAPHY:

World Data Center A,  
Oceanography  
National Oceanic and Atmospheric  
Administration  
Washington, D.C., U.S.A. 20235

Telephone: (202) 634-7249

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PALEOMAGNETISM AND ARCHEOMAGNETISM,  
VOLCANOLOGY, GEOTHERMICS):

World Data Center A,  
Solid-Earth Geophysics  
Environmental Data Service, NOAA  
Boulder, Colorado, U.S.A. 80302

Telephone: (303) 499-1000  
Ext. 6521


### ROCKETS AND SATELLITES:

World Data Center A,  
Rockets and Satellites  
Goddard Space Flight Center  
Code 601,  
Greenbelt, Maryland  
U.S.A. 20771

Telephone: (301) 982-6695

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## INTRODUCTION

The International Geological/Geophysical Cruise Inventory (IGGCI) is an international marine data inventory system sponsored jointly by the Intergovernmental Oceanographic Commission (IOC) and the Commission for Marine Geology (CMG) of the International Union of Geological Sciences (IUGS). The file is maintained by World Data Center A (WDC-A), Oceanography with support for automation of the file provided by the Marine Geology and Geophysics Branch of the National Geophysical and Solar-Terrestrial Data Center. Automation consists of digitization of the data locations and preparation of appropriate computer plots.

The IGGCI concept resulted from the expressed needs of marine geologists and geophysicists to have at their disposal an inventory which would provide ready reference to the track charts showing geographical coverage of marine geological samples and geophysical traverses. It is intended to facilitate cruise planning, identify data repositories, and stimulate scientist-to-scientist communication and exchange of data.

IGGCI forms are completed by geological/geophysical data-gathering organizations in the international oceanographic community. These forms are sent to World Data Center A, Oceanography, Washington, D.C., U.S.A., and World Data Center B, Oceanography, Moscow, U.S.S.R., as appropriate. Each of these Centers provides copies of IGGCI forms received to the other Center.

This catalogue contains computer plots of sample and traverse locations that were produced for World Data Center A, Oceanography by the National Geophysical and Solar-Terrestrial Data Center (NGSDC), which is part of the National Oceanic and Atmospheric Administration's (NOAA's) Environmental Data and Information Service (EDIS). These plots were generated from the IGGCI forms received by WDC-A, Oceanography before September 1974. In the future, supplements will be issued periodically to update the publication, with their frequency to be determined according to the degree of participation in the program by the international scientific community.



## DESCRIPTION OF WORLD DATA CENTERS

World Data Centers conduct international exchange of geophysical observations in accordance with the principles set forth by the International Council of Scientific Unions (ICSU). They were established in 1957 by the Comité Spécial pour l'Année Géophysique Internationale (CSAGI) as part of the fundamental international planning for the International Geophysical Year program to collect data from the numerous and widespread IGY observational programs and to make such data readily accessible to interested scientists and scholars for an indefinite period of time. WDC-A was established in the U.S.A.; WDC-B, in the U.S.S.R.; and WDC-C, in Western Europe, Australia, and Japan. This new system for exchanging geophysical data was found to be very effective, and the operations of the World Data Centers were extended by ICSU on a continuing basis to other international programs; the WDC's were under the supervision of the Comité International de Géophysique (CIG) for the period 1960 to 1967 and are now supervised by the ICSU Panel on World Data Centres.

The current plans for continued international exchange of geophysical data through the World Data Centers are set forth in the Third Consolidated Guide to International Data Exchange through the World Data Centres, issued by the ICSU Panel on World Data Centres, December 1973. These plans are broadly similar to those adopted under ICSU auspices for the IGY and subsequent international programs.

### Functions and Responsibilities of WDC's

The World Data Centers collect data and publications for the following disciplines: Glaciology; Meteorology; Oceanography; Marine Geology and Geophysics; Rockets and Satellites; Solar-Terrestrial Physics disciplines (Solar and Interplanetary Phenomena, Ionospheric Phenomena, Flare-Associated Events, Geomagnetic Phenomena, Aurora, Cosmic Rays, Airglow); Solid-Earth Geophysics disciplines (Seismology, Tsunamis, Gravimetry, Earth Tides, Recent Movements of the Earth's Crust, Rotation of the Earth, Magnetic Measurements, Paleomagnetism and Archeomagnetism, Volcanology, Geothermics). In planning for the various scientific programs, decisions on data exchange were made by the scientific community through the international scientific unions and committees. In each discipline the specialists themselves determined the nature and form of data exchange, based on their needs as research workers. Thus, the type and amount of data in the WDC's differ from discipline to discipline.

The objectives of establishing several World Data Centers for collecting observational data were: (1) to insure against loss of data by the catastrophic destruction of a single center, (2) to meet the geographical convenience of, and provide easy communication for, workers



in different parts of the world. Each WDC is responsible for: (1) endeavoring to collect a complete set of data in the field or discipline for which it is responsible, (2) safekeeping of the incoming data, (3) correct copying and reproduction of data, maintaining adequate standards of clarity and durability, (4) supplying copies to other WDC's of data not received directly, (5) preparation of catalogues of all data in its charge, (6) making data in the WDC's available to the scientific community. The WDC's conduct their operation at no expense to ICSU or to the ICSU family of unions and committees.

#### World Data Center A

World Data Center A, for which the National Academy of Sciences through the Geophysics Research Board (GRB) and its Committee on Data Interchange and Data Centers has overall responsibility, consists of the WDC-A Coordination Office and seven subcenters at scientific institutions in various parts of the United States. The GRB periodically reviews the activities of WDC-A and has conducted several studies on the effectiveness of the WDC system. As a result of these reviews and studies, some of the subcenters of WDC-A have been relocated so that they could more effectively serve the scientific community. The addresses of the WDC-A subcenters and the Coordination Office are given on page ii.

## REPORTING PROCEDURES

The IGGCI form, along with instructions for its completion, is shown in Appendix 1. Pads of these forms are available upon request from WDC-A, Oceanography. This form is completed by geological/geophysical data-gathering organizations in the international oceanographic community, and forwarded to World Data Center A, Oceanography, National Oceanic and Atmospheric Administration, Washington, D.C. 20235, U.S.A., or World Data Center B, Oceanography, Molodezhnaya, 3, Moscow, 117296, U.S.S.R., as appropriate.

The forms received by WDC-A, Oceanography have been processed by the National Geophysical and Solar-Terrestrial Data Center. Processing consists of digitizing the data, placing them in an automated system and utilizing the automated data to create computer-produced plots that show the types of data collected and their locations. This Catalogue represents the final product of this work. It is intended to serve as a referral service and allow persons interested in the data to contact data originators. Before plots are made, the data, if submitted on the original IGGCI forms, are reformatted into the revised IGGCI format, which has been endorsed by the Intergovernmental Oceanographic Commission and the International Union of Geological Sciences. As a matter of information, the header designations for the revised IGGCI format are found in tabular form on page 1-5.

### DESCRIPTION OF TRACKLINE PLOTS

This section of the Catalogue contains the computer plots generated for each cruise from the IGGCI data. In regard to the plots, tracklines are drawn if geophysical data were collected. It should be understood that while a plot may list all of the types of geophysical data taken on a particular cruise, some portions of the traverse may not contain all data listed. For example, a cruise may have 500 km. of traverse plotted with its underway geophysical data listed as bathymetry, gravity, magnetics, and seismics, while in fact only 300 km. of seismics were taken.

The various types of stations are indicated on the plots by symbols. The most common have their own particular symbol; others are grouped together under one symbol. The symbols are as follows:

<u>SYMBOL</u>	<u>TYPE STATION</u>
O	Core
Z	Drill hole
Δ	Dredge/Grab
+	Bottom photo
X	Heat flow
⊗	Bottom current
⊠	Near bottom water
Y	Other stations (column 76)
*	None of above variables

In processing the data and producing the plots, the following steps have been taken:

1. In a few cases plots do not show all data collected; for example, some of the data points fall far from the majority of the data points. In these cases the locations of these isolated points are omitted from the plots. For example, if data for a group of stations were taken within a 1-degree square and two stations were taken 10 degrees away, a page-size plot which shows all of the data would be too crowded to clearly present the coverage. However, by deleting the two distant points, those taken close together will appear at a scale that shows much more detail.
2. Obviously erroneous data points (e.g. those that fall on land) have been removed.
3. In some cases the computer-drawn coastline is inaccurate, due to the lack of sufficient geographical coordinate points to delineate the coastline in proper detail. The coastline should be considered only as an approximation of the true coastline. In some cases, the coastline has been offset from the computer coastline and drawn by hand.
4. On some of the IGGCI forms received by WDC-A, geophysical data points were sampled in such a way that when connecting them by straight lines, the trackline appears to cross land. For such cases the lines have generally been removed from the plots.
5. Where more than one type of station is reported for one position and recorded on one line of the IGGCI form, only one symbol is shown. The symbol used is determined by the sequence in which station headings appear on the form from left to right. For example, the core symbol overrides the drill hole symbol, drill hole overrides dredge/grab, etc. The asterisk, the lowest priority, indicates the trackline position given without any of the parameters reported.

Also included in this publication are plots of a group of cruises reported by the United States under the International Decade of Ocean Exploration (IDOE) Program. These cruises are denoted by asterisks in the Index of Trackline Plots. Plots for these cruises were not taken from IGGCI forms, and thus do not utilize the station symbols which are used on the other plots. Data for these cruises are available from NGSDC.

# INDEX OF TRACKLINE PLOTS

The plots are arranged in alphabetical order according to the country in which the data-collecting organization is located. Appendix 2 has been included to aid the user in locating plots which have tracklines in particular areas of interest. The appendix contains a worldwide, multi-trackline plot of all cruises presented in this catalogue, as well as composite geographical plots showing the locations of the detailed page-size plots.

<u>Plot No.</u>	<u>Country</u>	<u>Dates</u>	<u>Ship/Cruise</u>
1.	Australia	12/71	LADY CHRISTINE/Survey 14-3
2.	Australia	12/71-1/72	LADY CHRISTINE/Survey 15-1
3.	Australia	1/72	LADY CHRISTINE/Survey 15-2
4.	Australia	2/72-3/72	LADY CHRISTINE/Survey 15-3
5.	Australia	3/72	LADY CHRISTINE/Survey 15-4
6.	Australia	3/72-4/72	LADY CHRISTINE/Survey 16-1
7.	Australia	4/72-5/72	LADY CHRISTINE/Survey 16-2
8.	Australia	5/72-6/72	LADY CHRISTINE/Survey 16-3
9.	Australia	6/72	LADY CHRISTINE/Survey 16-4
10.	Australia	7/72	LADY CHRISTINE/Survey 17-1
11.	Australia	7/72-8/72	LADY CHRISTINE/Survey 17-2
12.	Australia	8/72-9/72	LADY CHRISTINE/Survey 17-3, 17-4
13.	Australia	9/72-12/72	LADY CHRISTINE/Survey 18-1, 18-3
14.	Australia	12/72-1/73	LADY CHRISTINE/Survey 19-1
15.	Australia	2/72	SAN PEDRO STRAIT/Cruise 1972 Leg 1
16.	Australia	3/72	SAN PEDRO STRAIT/Cruise 1972 Leg 2
17.	Australia	3/72-4/72	SAN PEDRO STRAIT/Cruise 1972 Leg 3
18.	Australia	4/72	SAN PEDRO STRAIT/Cruise 1972 Leg 4
19.	Australia	4/72-5/72	SAN PEDRO STRAIT/Cruise 1972 Leg 5
20.	Australia	2/73-5/73	SPRIGHTLY
21.	Germany, Federal Republic of	1/71-2/71	METEOR/Cruise 22 Leg 1
22.	Germany, Federal Republic of	4/71-5/71	METEOR/Cruise 23 Leg 1
23.	Germany, Federal Republic of	10/71-12/71	METEOR/Cruise 25
24.	Germany, Federal Republic of	9/72-10/72	METEOR/Cruise 28 Leg 2
25.	Germany, Federal Republic of	3/73-4/73	METEOR/Cruise CINECA/30
26.	Germany, Federal Republic of	3/74	METEOR/Cruise 33 Leg 2
27.	Germany, Federal Republic of	10/70	WINNARETTA SINGER/Cruise ANNA Legs 2 & 3
28.	Ivory Coast	11/66-7/70	REINE POKOU/Cruise CRO



<u>Plot No.</u>	<u>Country</u>	<u>Dates</u>	<u>Ship/Cruise</u>
29.	Japan	9/70-10/70	DAIEI MARU No. 83/Japan Sea Magnetics Cruise, Leg KUMI
30.	Japan	5/70-6/70	SEIFU MARU/Cruise FRAN
31.	Japan	6/70-7/70	MEIYO
32.	Japan	8/70-10/70	MEIYO
33.	Japan	7/71-8/71	MEIYO
34.	Japan	8/71-10/71	MEIYO
35.	Japan	5/72-6/72	MEIYO
36.	Japan	5/73-6/73	MEIYO
37.	Japan	7/73-8/73	MEIYO
38.	Japan	8/73-9/73	MEIYO
39.	Japan	5/72-9/72	SHOYO
40.	Japan	10/72-11/72	SHOYO
41.	Japan	5/73-6/73	SHOYO
42.	Japan	7/73-8/73	SHOYO
43.	Japan	9/72	TOKAIDAIGAKU MARU II
44.	Japan	11/72-12/72	WAKASHIO MARU
45.	Japan	7/73-8/73	WAKASHIO MARU
46.	Netherlands	5/70-6/70	AEGIS & DAPHNIS/KROONVLAK Cruise
47.	Netherlands	9/71-10/71	CHIRON & ARISTOTELES/KROONVLAK Cruise
48.	Netherlands	1/71	LUYMES/Project CICAR Leg 21
49.	South Africa	3/68	AFRICANA II/Cruise 3/68
50.	South Africa	6/68	AFRICANA II/Cruise 6/68
51.	South Africa	9/68	AFRICANA II/Cruise 9/68
52.	South Africa	4/68	BELLATRIX/Cruise 4/68
53.	South Africa	1/68	T.B. DAVIE/Cruise 161
54.	South Africa	3/68	T.B. DAVIE/Cruise 170, 185, 189
55.	South Africa	10/69-11/69	T.B. DAVIE/Cruise 215
56.	South Africa	2/70	T.B. DAVIE/Cruise 223
57.	South Africa	5/70	T.B. DAVIE/Cruise 233
58.	South Africa	6/70, 8/70, 9/70	T.B. DAVIE/Cruise 236, 239, 244
59.	South Africa	10/70	T.B. DAVIE/Cruise 246
60.	South Africa	2/71	T.B. DAVIE/Cruise 257
61.	South Africa	10/71-11/71 & 10/72-11/72	T.B. DAVIE/Cruise 267, 277
62.	South Africa	3/70-4/70	RSA/MARION Cruise
63.	South Africa	8/70-9/70	RSA/Cruise 2
64.	United Kingdom	7/71	JOHN MURRAY/Cruise 1/71, Leg 1
65.	United Kingdom	3/71-4/71	JOHN MURRAY/Cruise 3/71
66.	United Kingdom	5/72	JOHN MURRAY/Cruise 6, Leg 2
67.	United Kingdom	4/70-5/70	DISCOVERY/Cruise 33, Legs 1 & 2
68.	United Kingdom	10/71-11/71	DISCOVERY/Cruise 43, Legs 1 & 2
69.	United Kingdom	6/72-7/72	DISCOVERY/Cruise 47
70.	United Kingdom	6/73-8/73	DISCOVERY/Cruise 54, Legs 1 & 2

<u>Plot No.</u>	<u>Country</u>	<u>Dates</u>	<u>Ship/Cruise</u>
71.	United Kingdom	2/74-3/74	DISCOVERY/Cruise 60
72.	United Kingdom	6/71-9/71	MARCEL BAYARD/Cruise CANTAT II, Legs 1-3
73.	United Kingdom	3/71-4/71	SURVEYOR/Cruise 1/71
74.	United States	1964	ALAMINOS/Cruises 64-A-2 & 64-A-9
75.	United States	1965	ALAMINOS/Cruises 65-A-4, 65-A-10, 65-A-15
76.	United States	1966	ALAMINOS/Cruise 66-A-4
77.	United States	1966	ALAMINOS/Cruise 66-A-13
78.	United States	1967	ALAMINOS/Cruises 67-A-3 & 67-A-9
79.	United States	1968	ALAMINOS/Cruises 68-A-6 & 68-A-11
80.	United States	1968	ALAMINOS/Cruise 68-A-14
81.	United States	1969	ALAMINOS/Cruises 69-A-4 & 69-A-5
82.	United States	1970	ALAMINOS/Cruises 70-A-1 & 70-A-8
83.	United States	1970	ALAMINOS/Cruises 70-A-12 & 70-A-13
84.	United States	1970	ALAMINOS/Cruise 70-A-15
85.	United States	1971	ALAMINOS/Cruise 71-A-4 Legs 2-4
86.	United States	1971	ALAMINOS/Cruise 71-A-13
87.	United States	1972	ALAMINOS/Cruise 72-A-5
88.	United States	1969	KANE/Cruise 69 KANE
89.	United States	2/70	EASTWARD/Cruise - 70
90.	United States	1/71	EASTWARD/St. Croix Island Cruise
91.	United States	7/68-8/68, 9/68	DISCOVERER/Lesser Antilles Cruise & Tobago Trough Cruise
92.	United States	2/69	DISCOVERER/ATEX-69 Cruise
93.	United States	8/69	DISCOVERER/Amazon Canyon Cruise
94.	United States	5/70	DISCOVERER/Cruise SCOR
95.	United States	9/70	DISCOVERER/Lesser Antilles Arc Study
96.	United States	5/71-6/71	DISCOVERER/Trans-Atlantic Geo- traverse 71
97.	United States	7/71	PIERCE/Wilkinson Basin Cruise
98.	United States	1/71	MT. MITCHELL/Antilles Outer Ridge Cruise
99.	United States	11/70	RESEARCHER/Abaco Canyon Cruise
100.	United States	9/72	ANNANDALE/Hudson Canyon II Cruise
101.	United States	5/71-6/71	*UNITED GEO I/Bay of Campeche, Leg 1
102.	United States	6/71-7/71	*UNITED GEO I/East Margin Yucatan Peninsula, Leg 2
103.	United States	7/71-8/71	*UNITED GEO I/Eastern Greater Antilles, Leg 3
104.	United States	8/71-9/71	*UNITED GEO I/Venezuelan Continental Borderland, Leg 4
105.	United States	10/71-11/71	*UNITED GEO I/Continental Margin Liberia, Leg 5
106.	United States	11/71-12/71	*UNITED GEO I/Liberia-Puerto Rico Traverse, Leg 6
107.	United States	1/72-4/72	*YAQUINA/Nazca Plate Study

<u>Plot No.</u>	<u>Country</u>	<u>Dates</u>	<u>Ship/Cruise</u>
108.	United States	12/71-2/72	*KANI KEOKI/Nazca Plate Project
109.	United States	3/72-4/72	*MELVILLE/Hypogene
110.	United States	1/72-7/72	*ATLANTIS II/Eastern Atlantic Continental Margin, Cruise 67
111.	United States	5/71-11/71	*SURVEYOR/Washington-Oregon Coast, OPR-421
112.	United States	4/71-5/71	*DISCOVERER/Trans-Atlantic Geo- traverse
113.	United States	9/71-11/71	*RESEARCHER/Equatorial Atlantic Project
114.	United States	2/73-6/73	*OCEANOGRAPHER/Nazca Plate Study
115.	United States	1/71-2/72	*ROBERT CONRAD/Cruise 15, Leg 4 Punta Arenas to Buenos Aires
116.	United States	2/72-3/72	*ROBERT CONRAD/Cruise 15, Leg 5 Buenos Aires to Buenos Aires
117.	United States	3/72-4/72	*ROBERT CONRAD/Cruise 15, Leg 6 Buenos Aires to Ingeniero White
118.	United States	4/72-5/72	*ROBERT CONRAD/Cruise 15, Leg 7 Ingeniero White to Rio de Janeiro
119.	United States	5/72-6/72	*ROBERT CONRAD/Cruise 15, Leg 8 Rio de Janeiro to Recife
120.	United States	6/72-7/72	*ROBERT CONRAD/Cruise 15, Leg 9 Recife to Barbados
121.	United States	7/72-8/72	*ROBERT CONRAD/Cruise 15, Leg 10 Barbados to Bermuda
122.	United States	1961-1970	*PIONEER & SURVEYOR/Pacific Sea Map, OPR 421
123.	U.S.S.R.	8/71-10/71	AKADEMIK ARKHANGELSKII/Mediter- ranean Sea Cruise
124.	U.S.S.R.	12/72-4/73	YURII GODIN/Mediterranean Sea Cruise

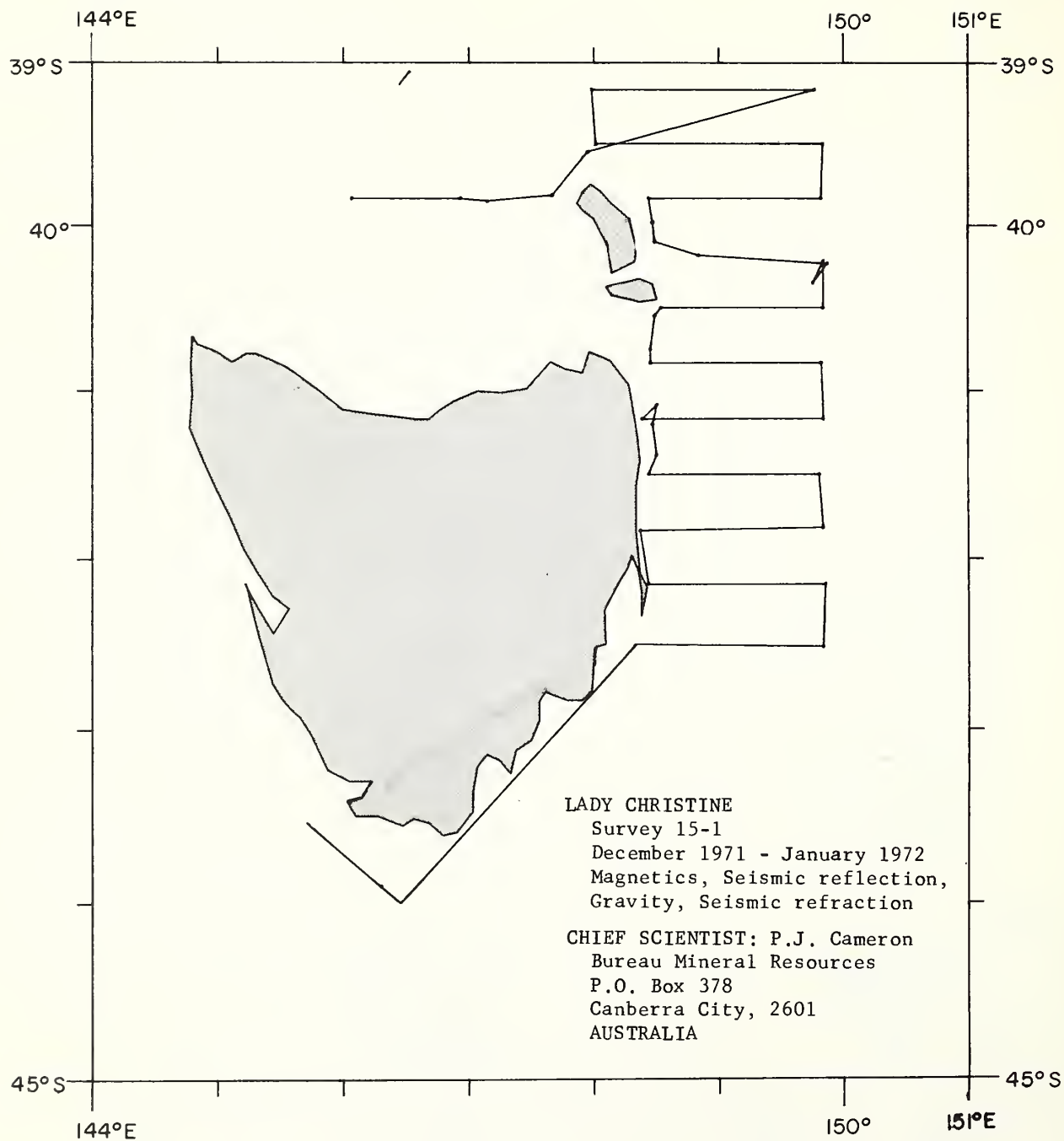
\*Indicates geophysical data are available from the NGSDC; no IGGCI forms were received for these cruises. These cruises were made as part of the International Decade of Ocean Exploration (IDOE) program.



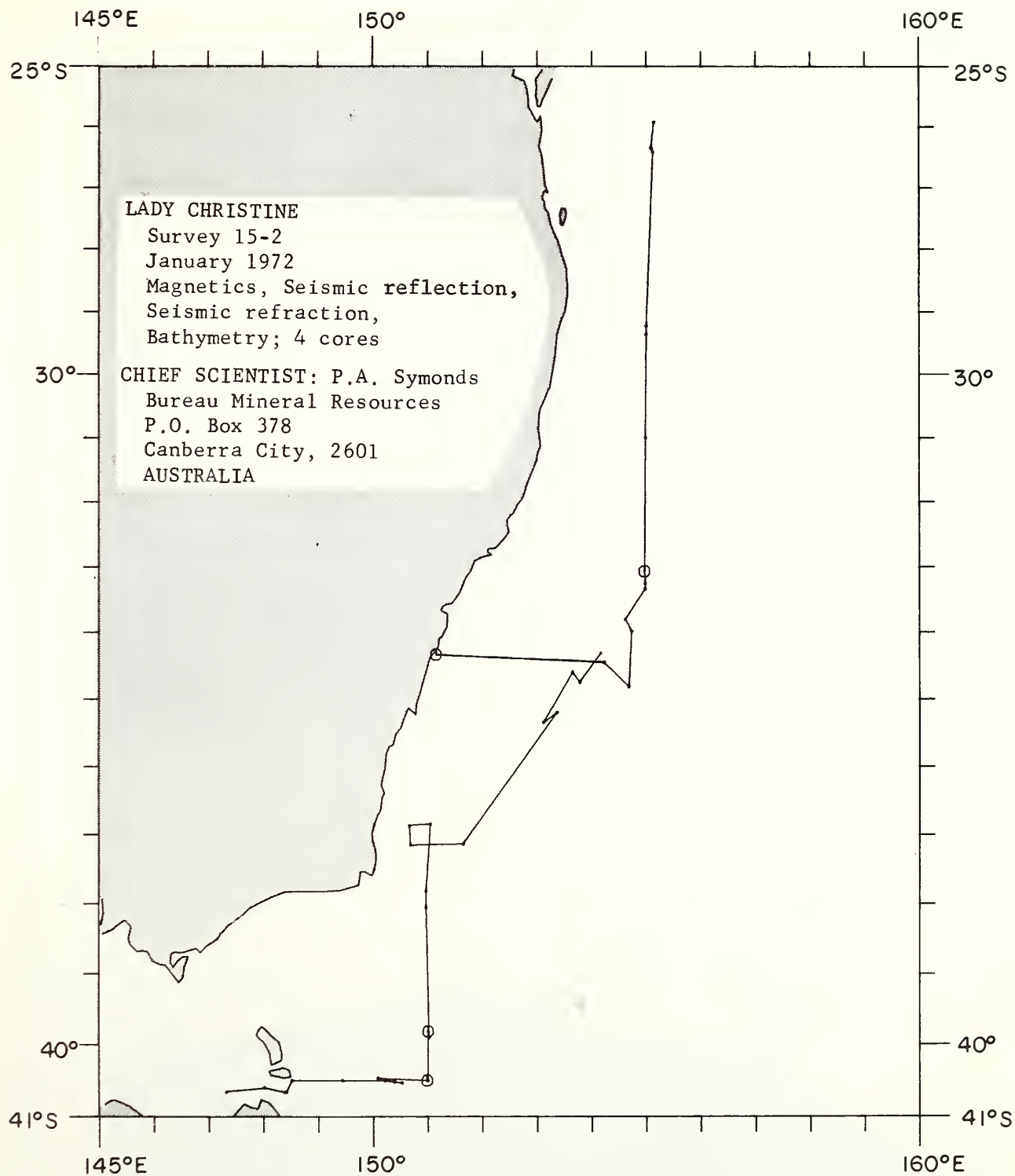




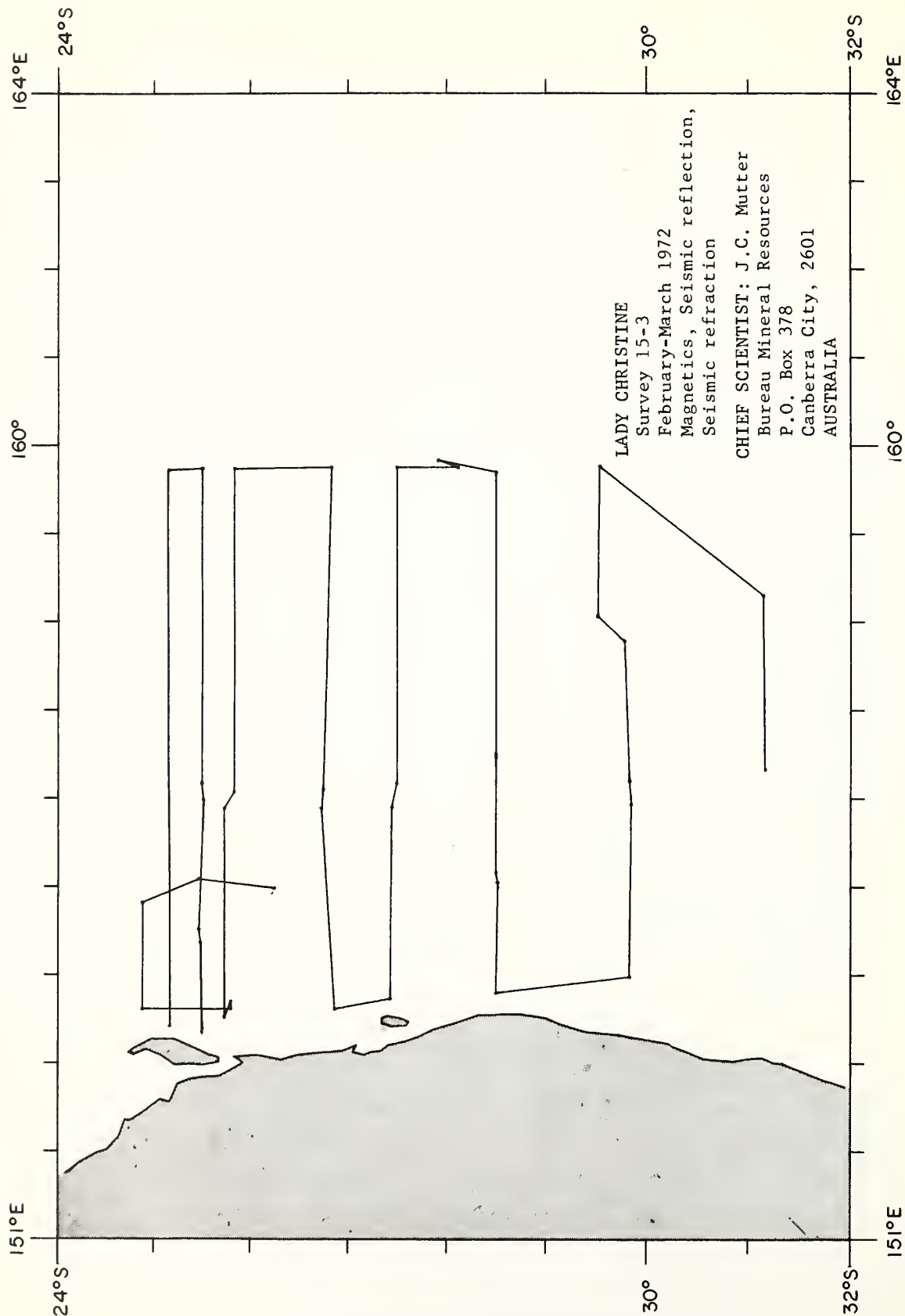
Plot No. 2

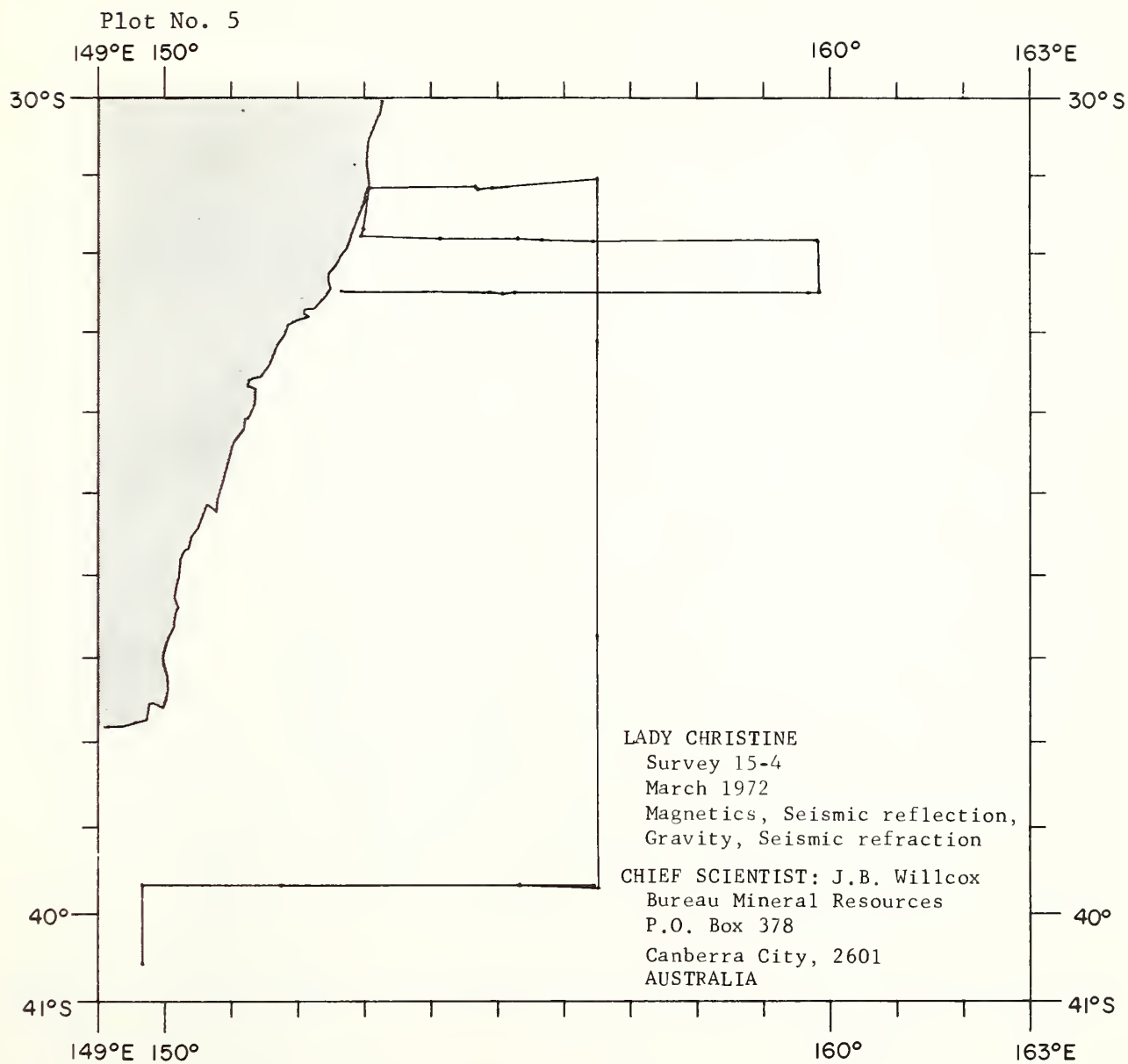


Plot No. 3

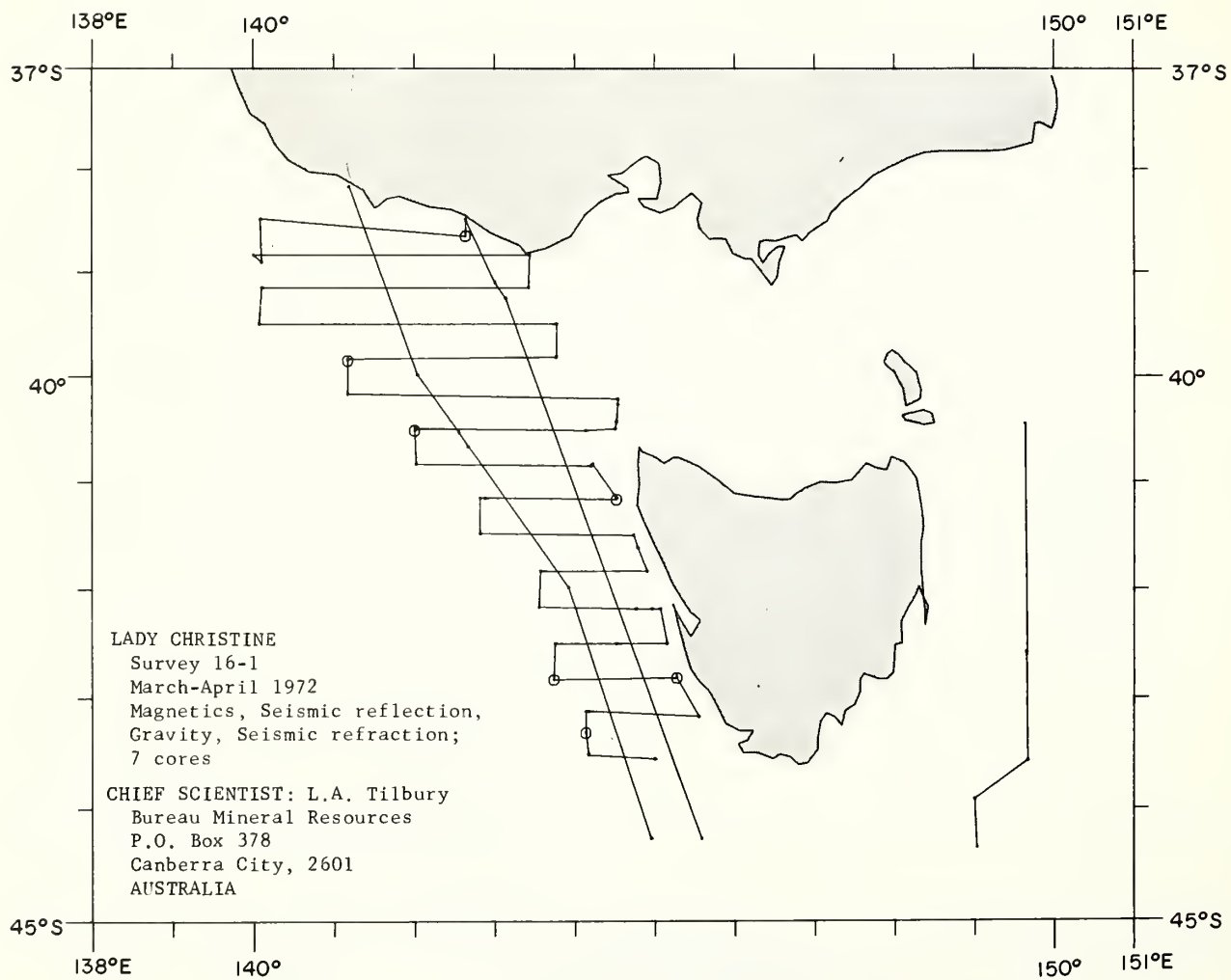


Plot No. 4



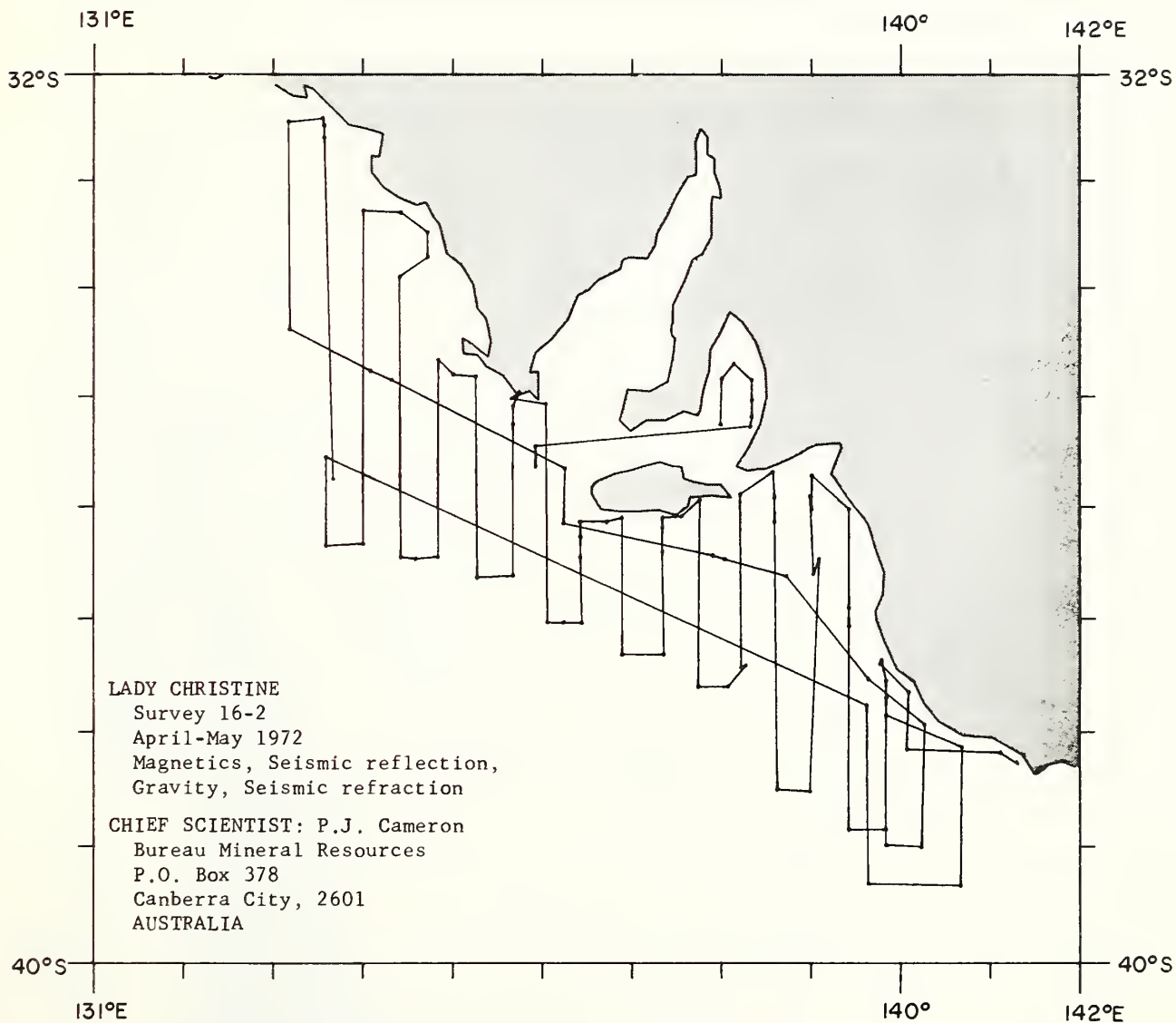


Plot No. 6

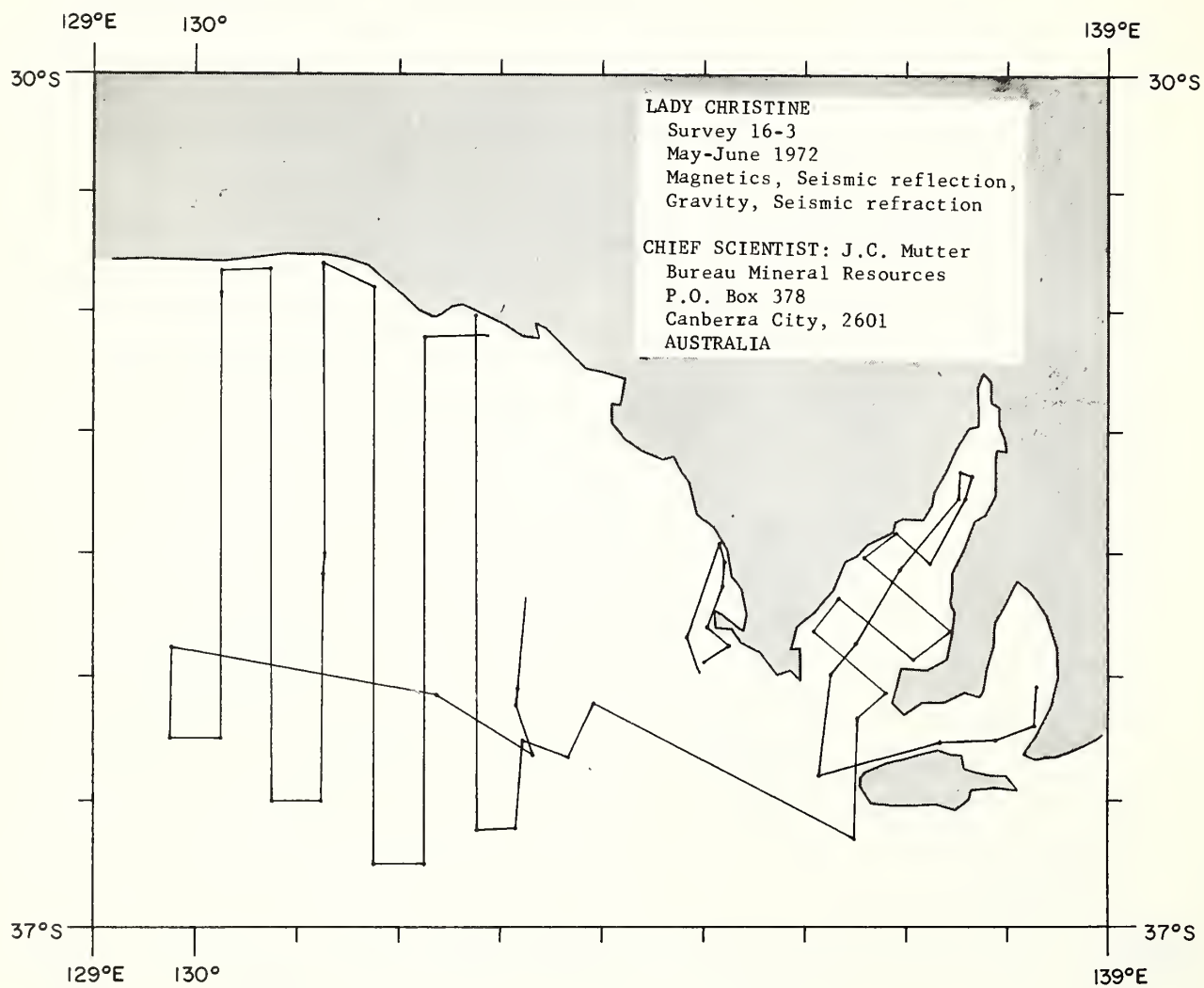




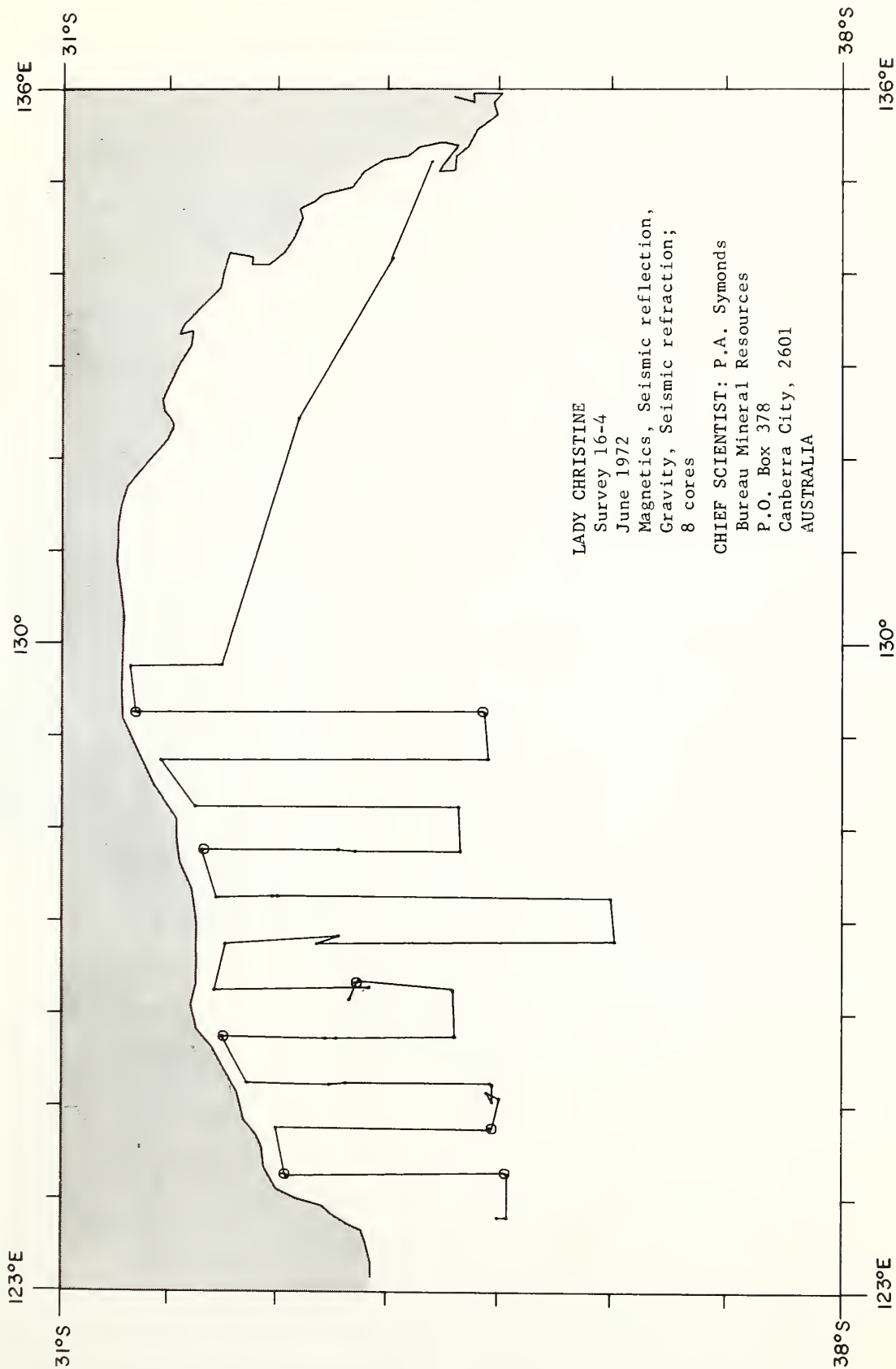
Plot No. 7



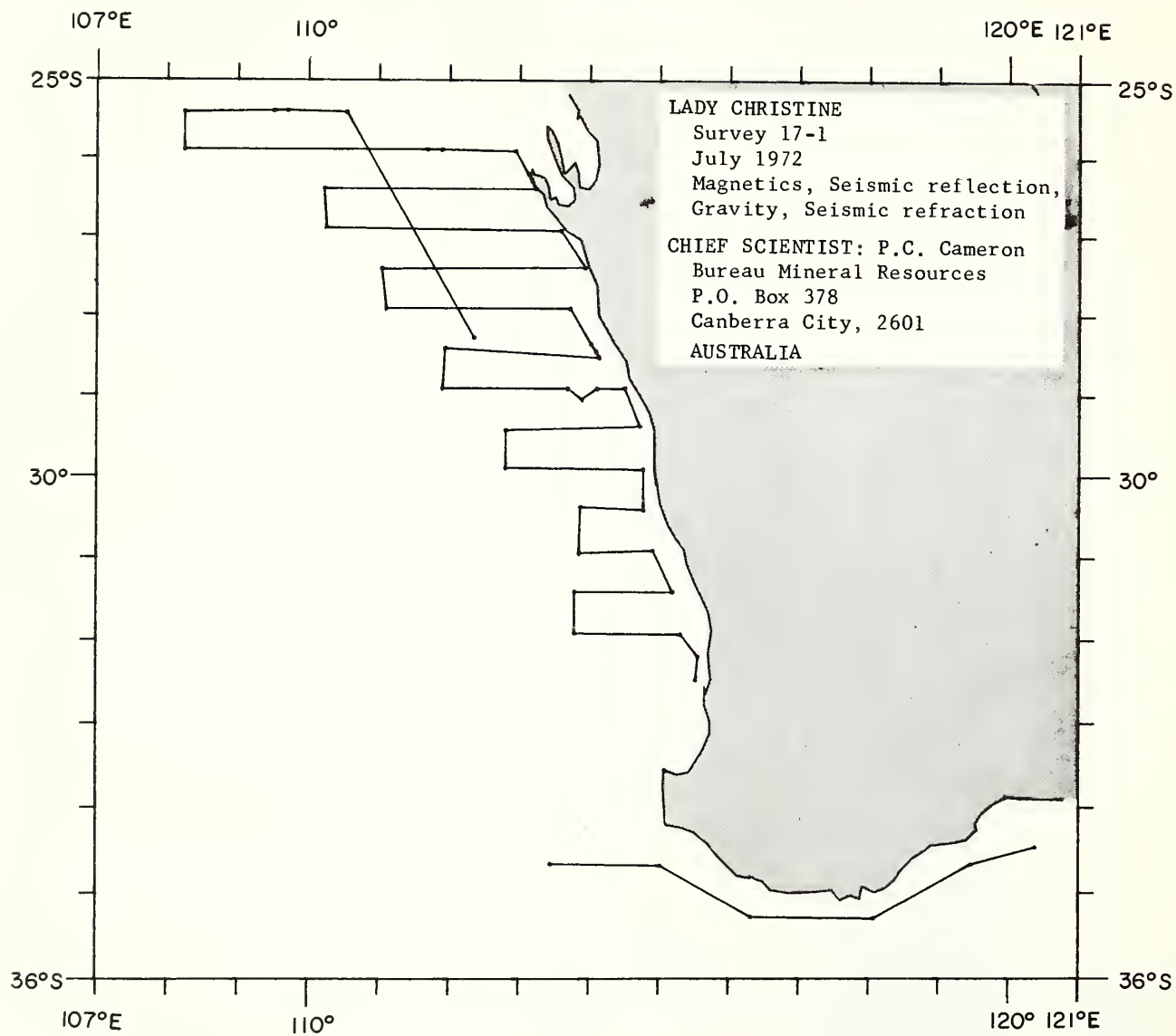
Plot No. 8



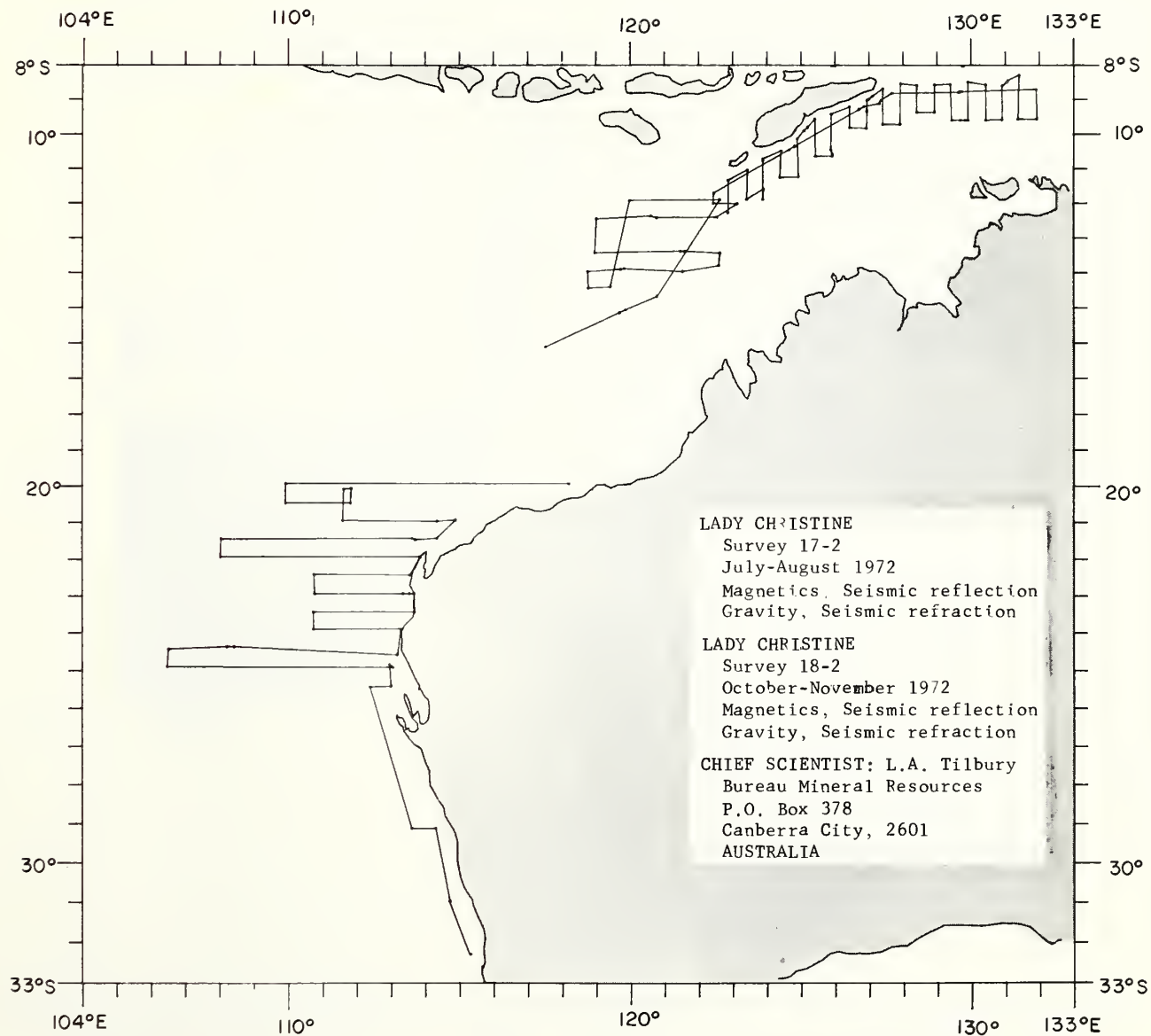
Plot No. 9



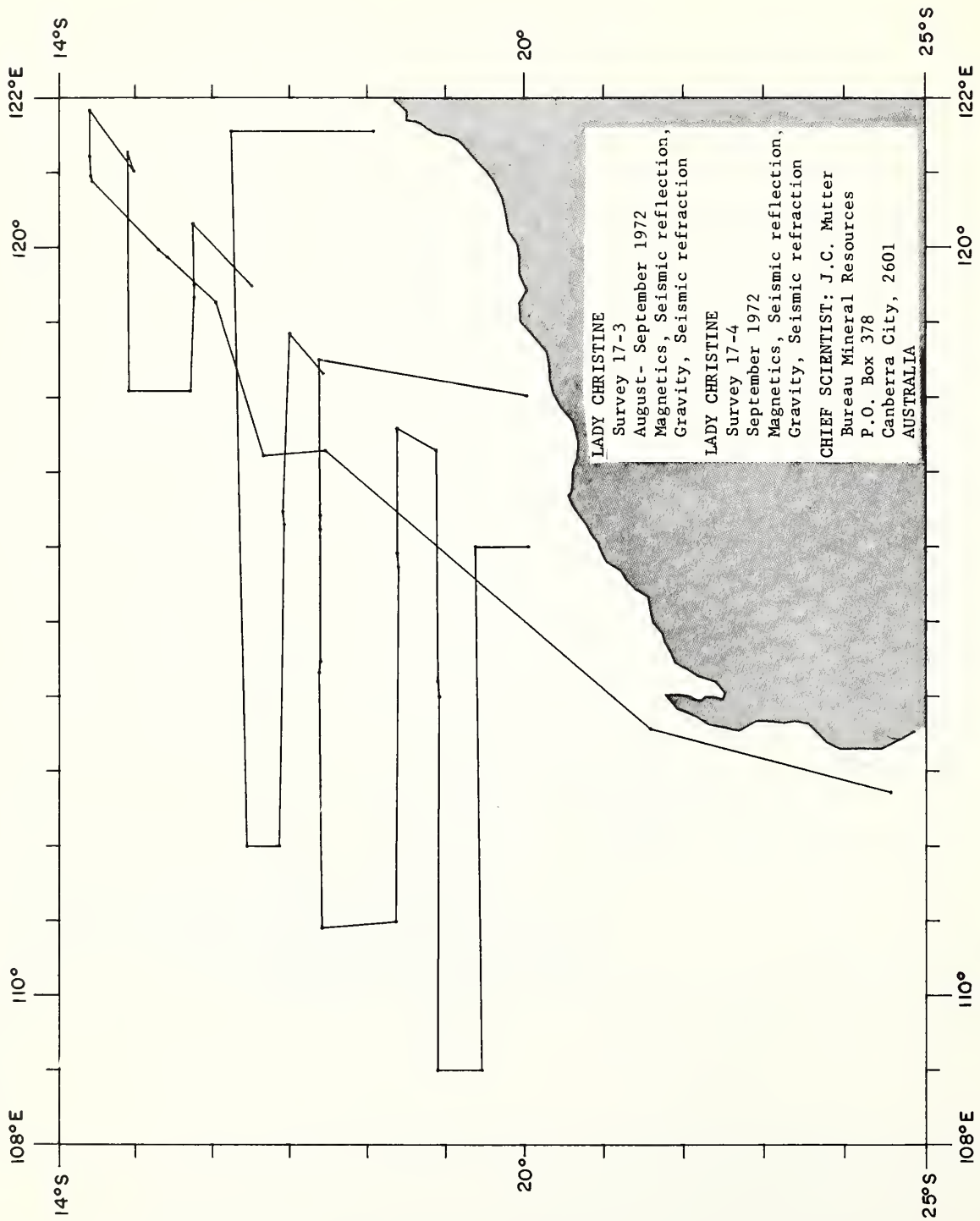
Plot No. 10

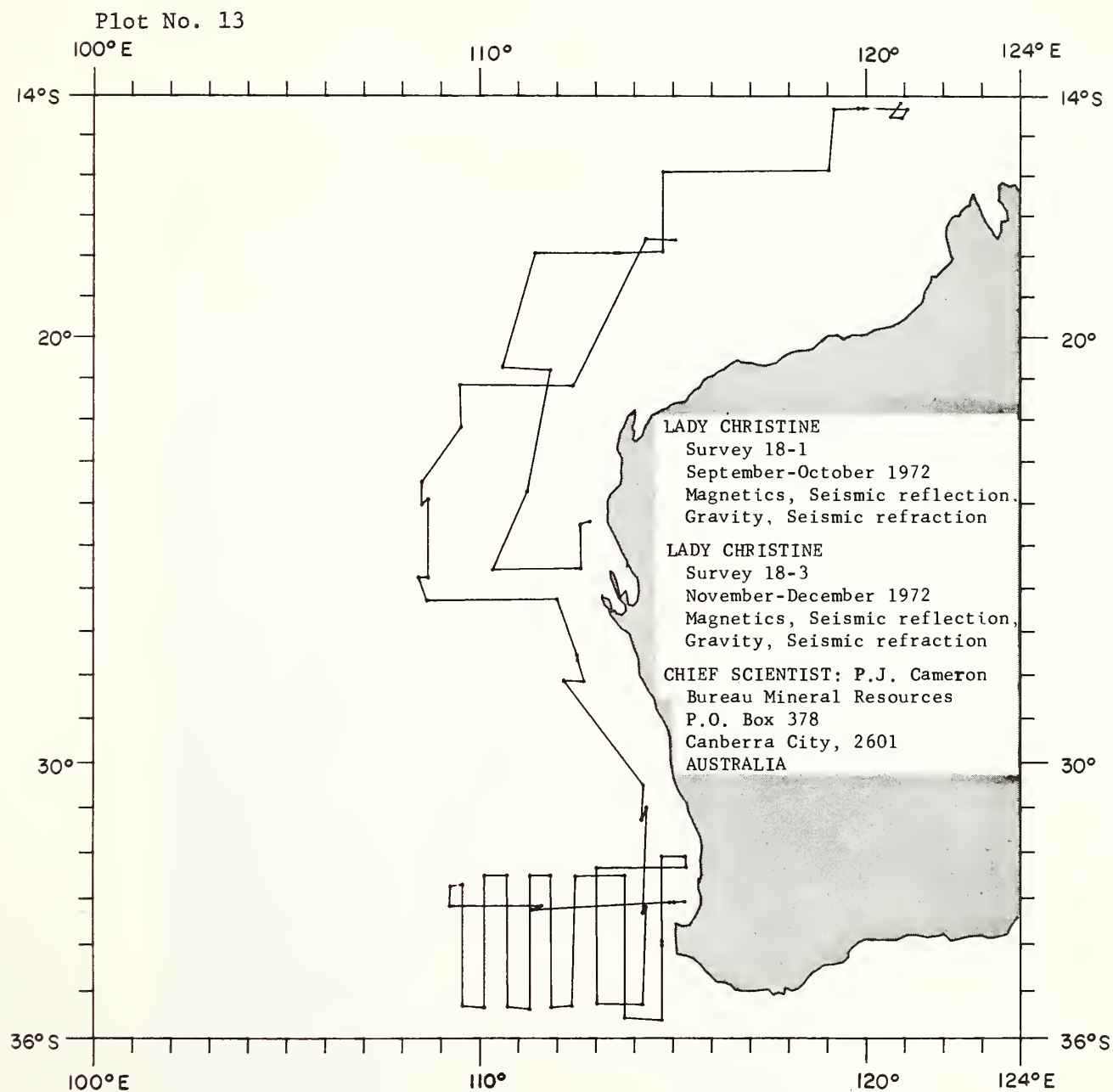


Plot No. 11



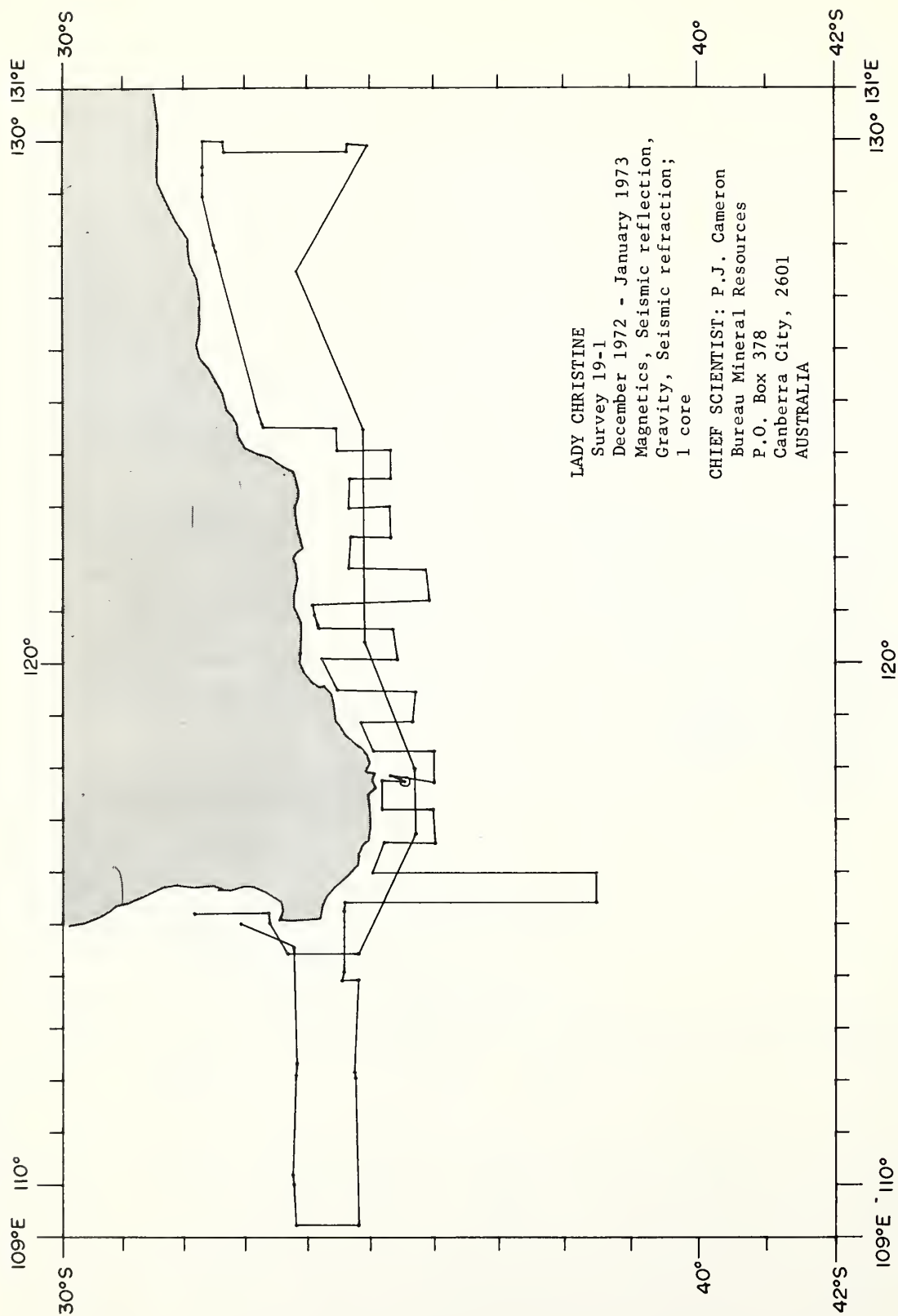
Plot No. 12



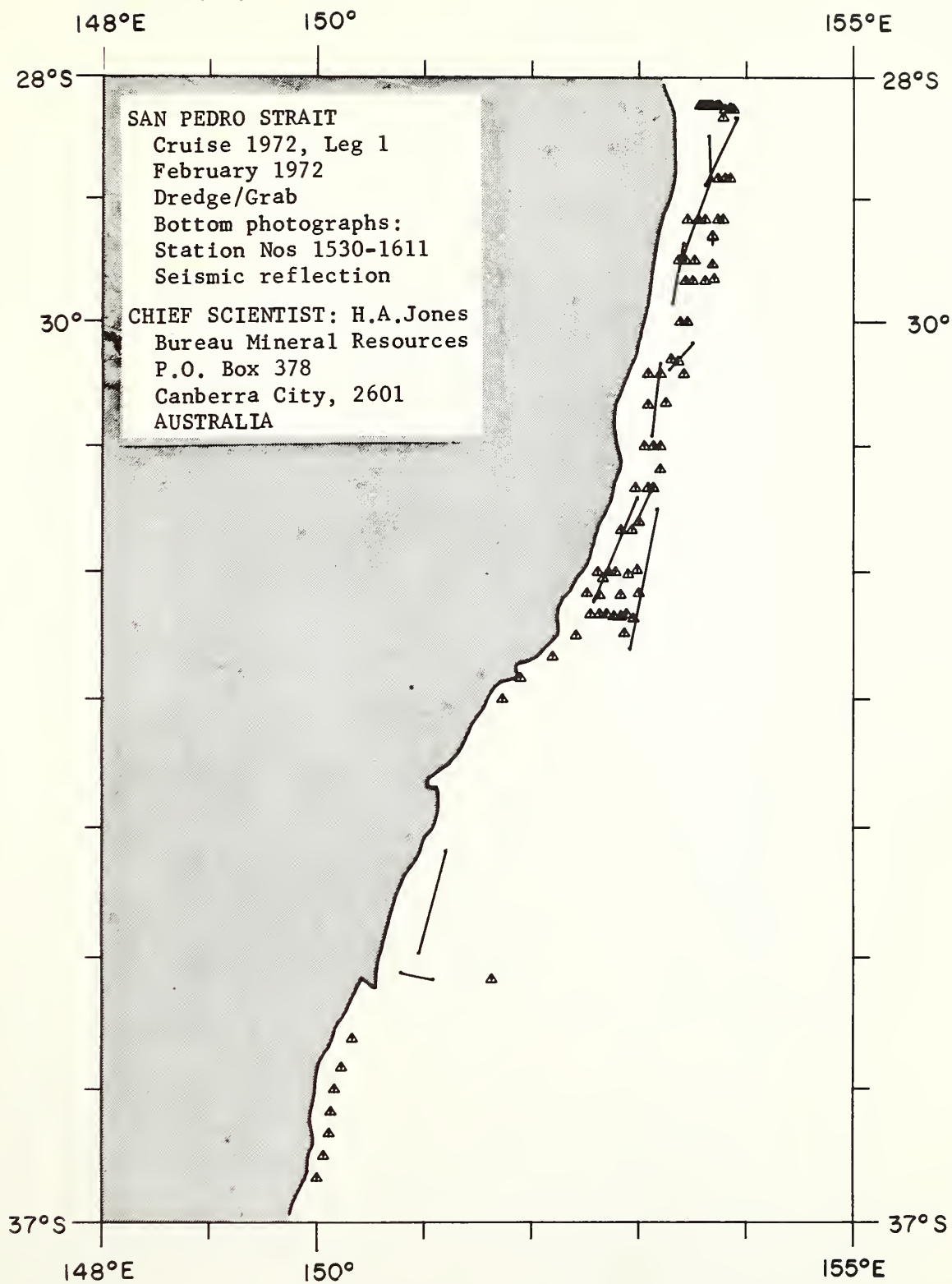




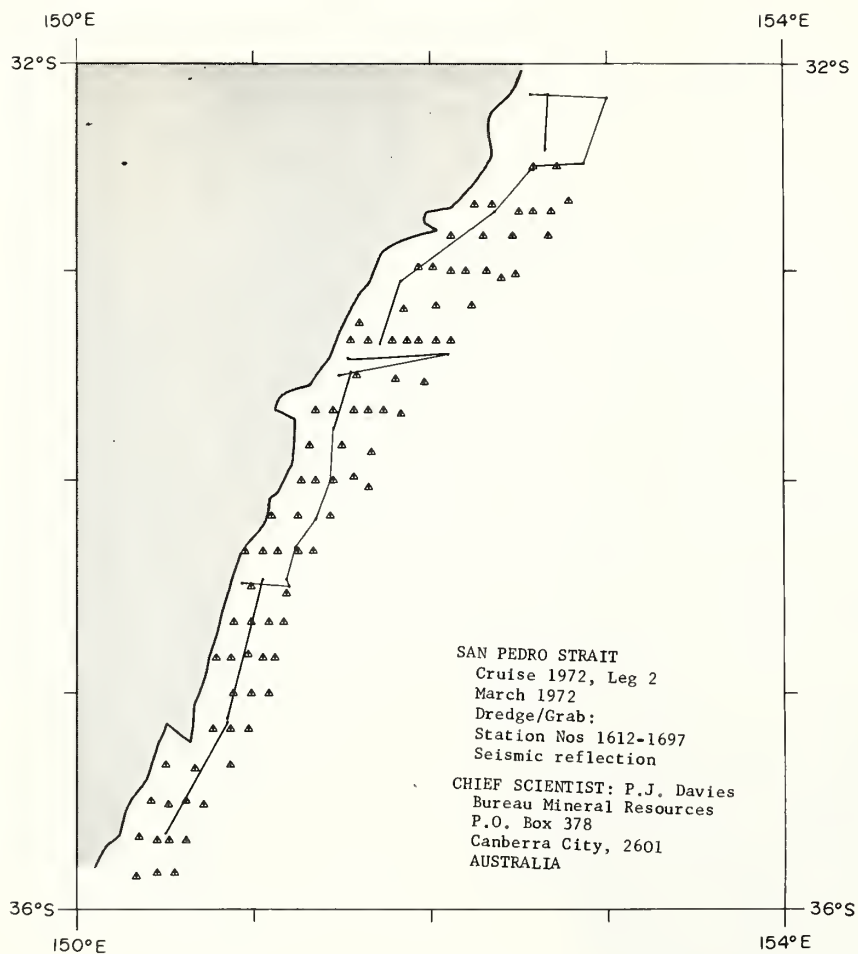
Plot No. 14

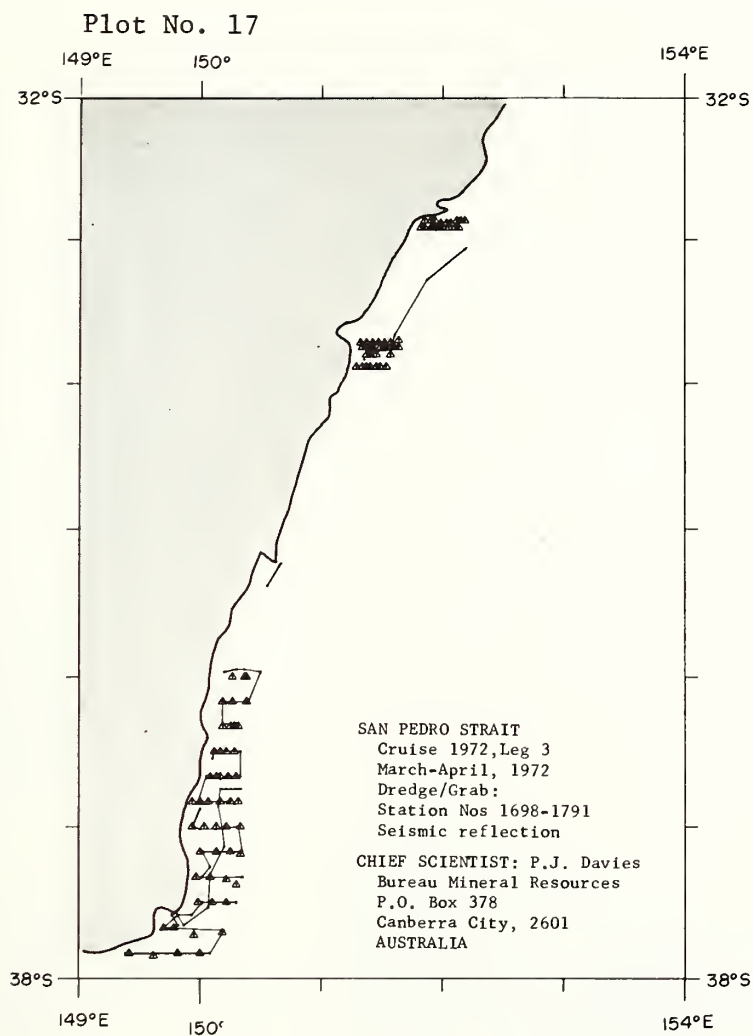


Plot No. 15

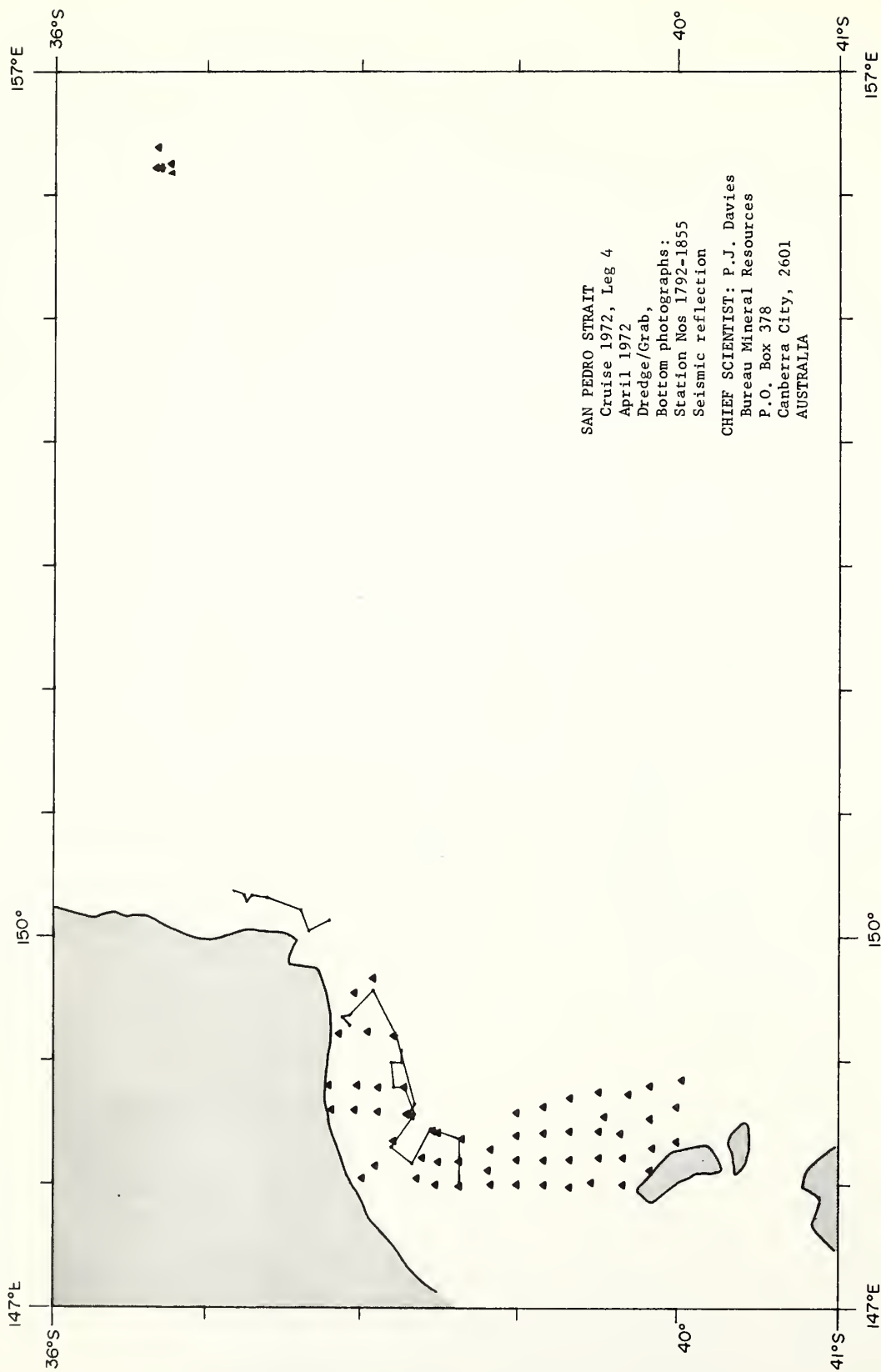


Plot No. 16





Plot No. 18

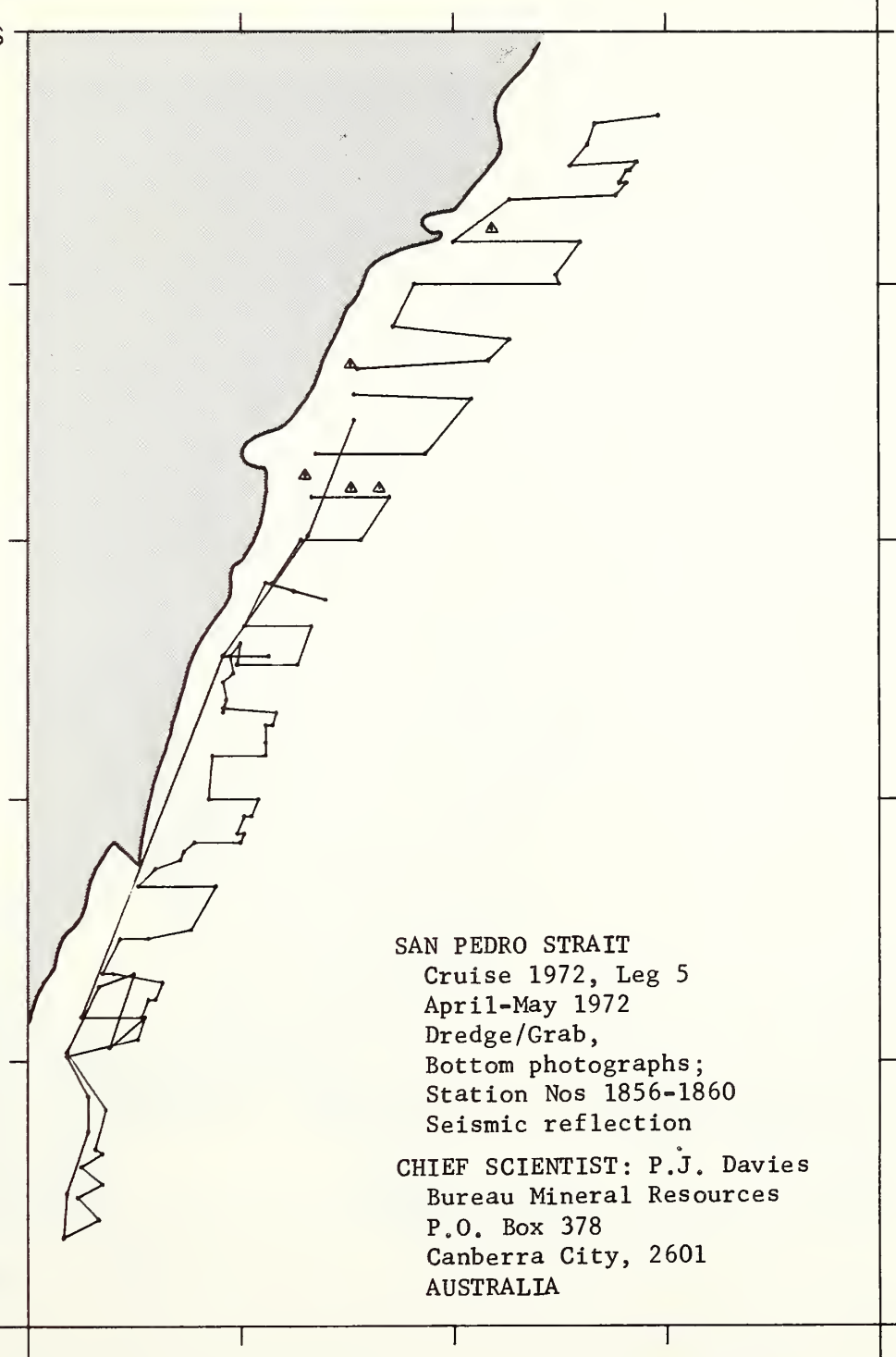


Plot No. 19  
150°E

154°E

32°S

32°S



SAN PEDRO STRAIT  
Cruise 1972, Leg 5  
April-May 1972  
Dredge/Grab,  
Bottom photographs;  
Station Nos 1856-1860  
Seismic reflection

CHIEF SCIENTIST: P.J. Davies  
Bureau Mineral Resources  
P.O. Box 378  
Canberra City, 2601  
AUSTRALIA

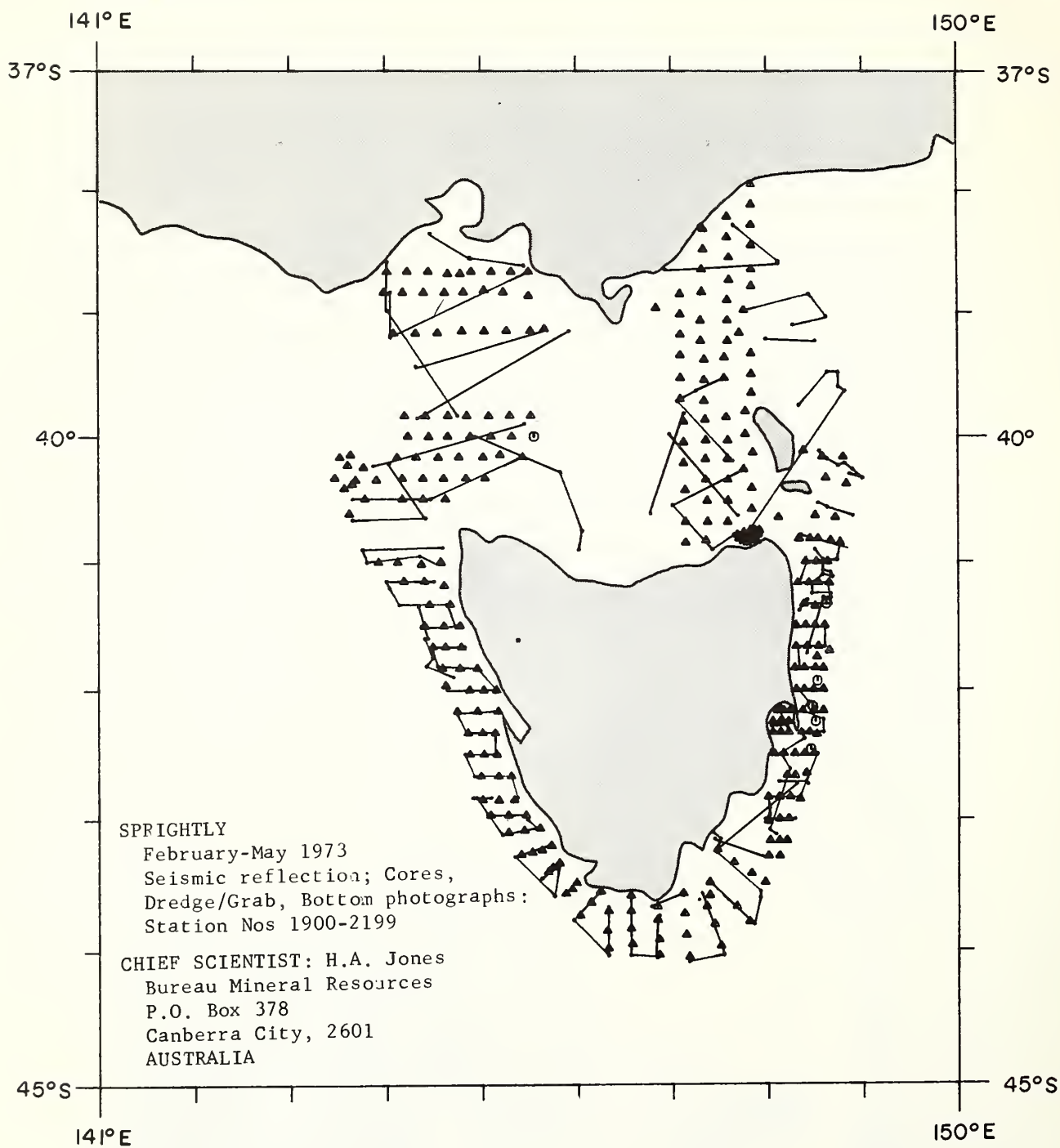
37°S

150°E

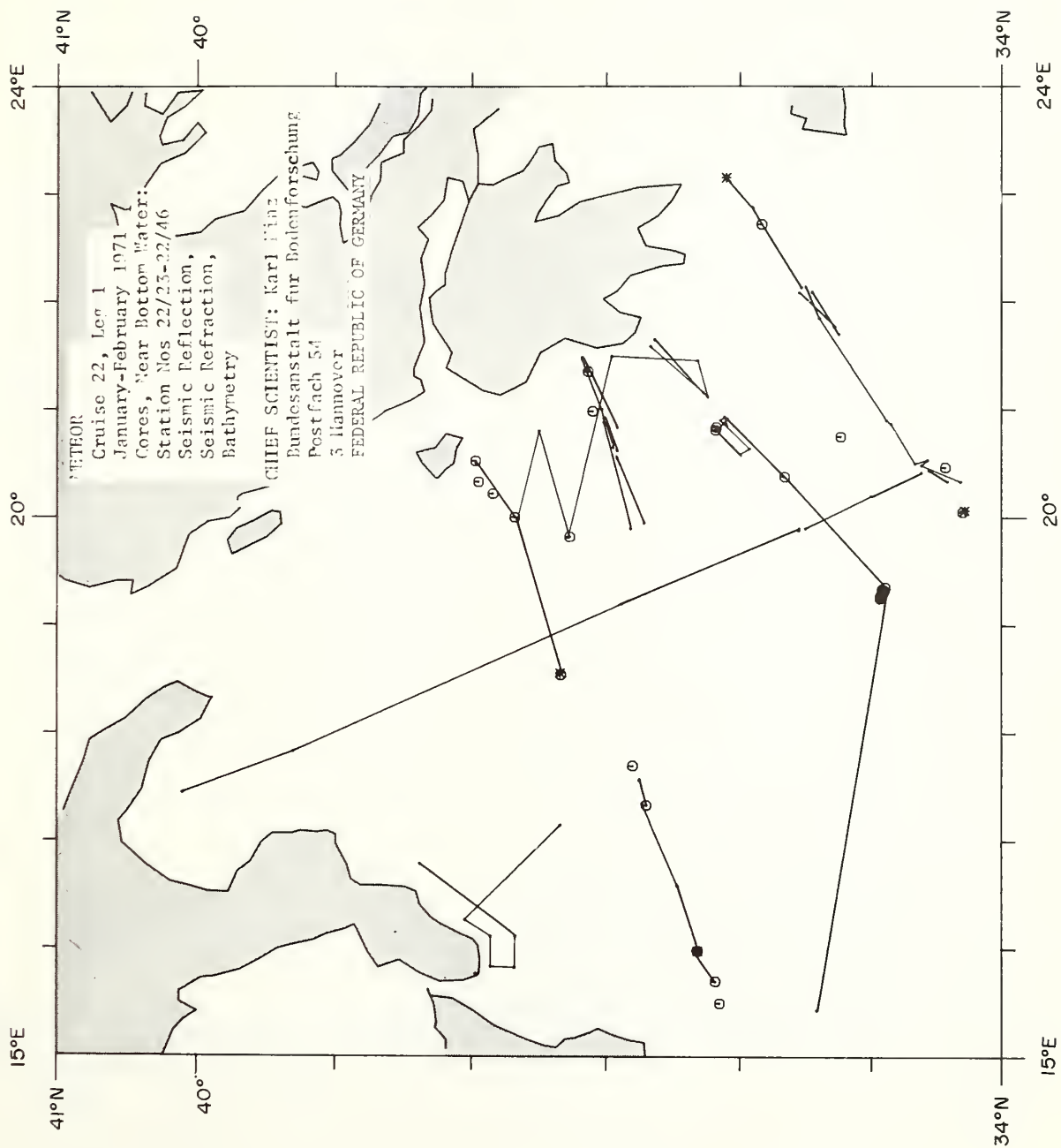
154°E

37°S

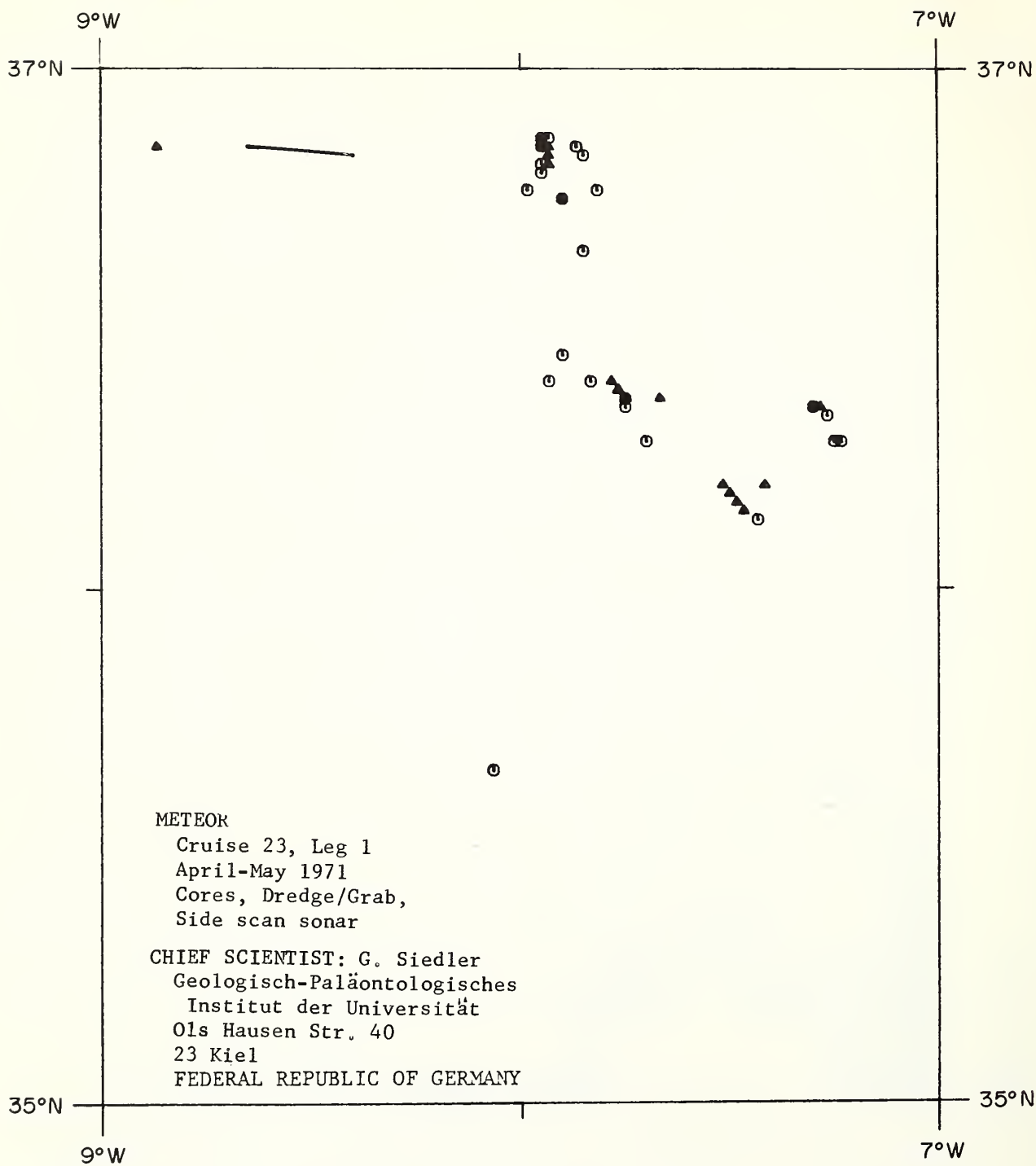
Plot No. 20



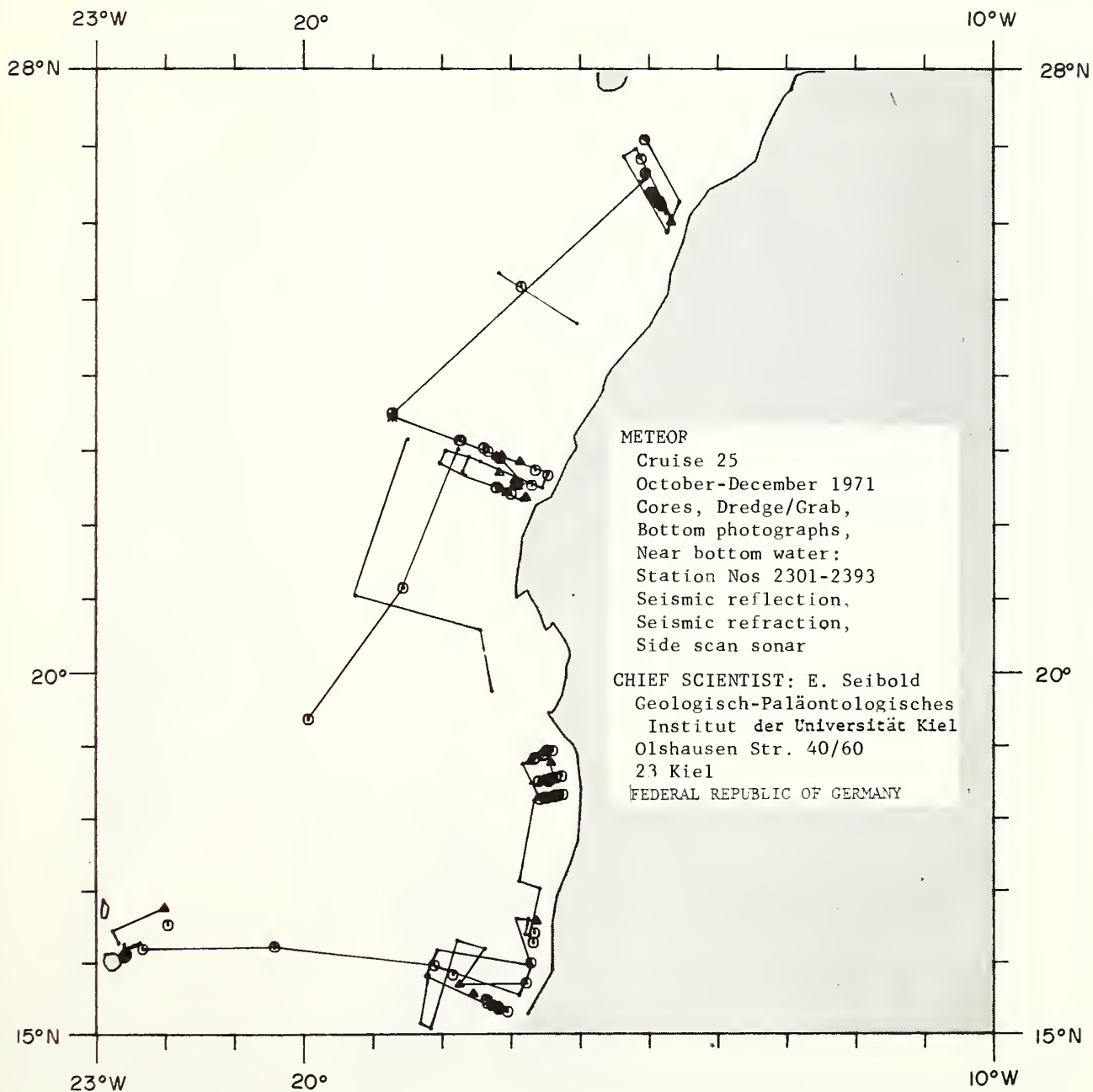




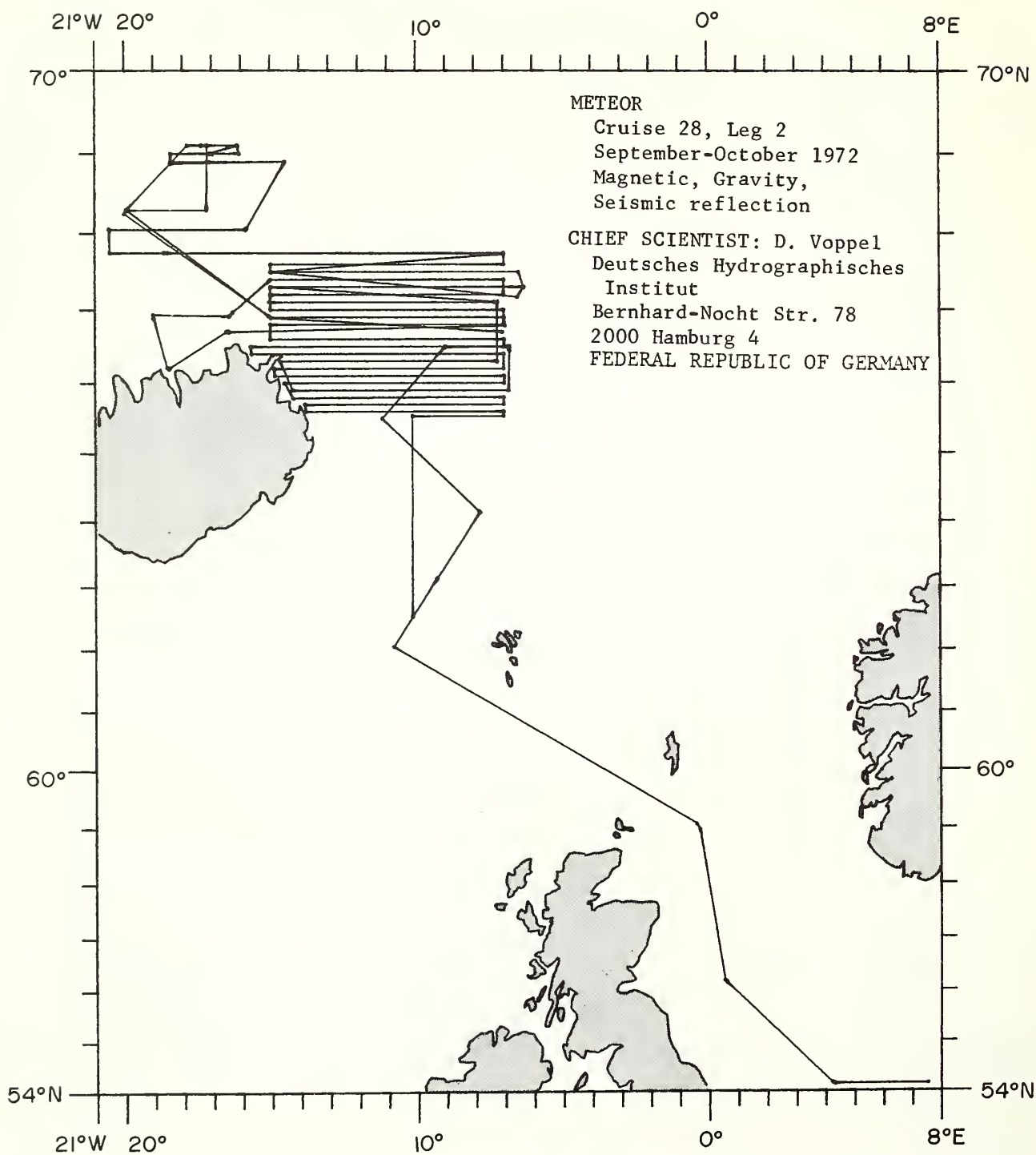
Plot No. 22



Plot No. 23



Plot No. 24



Plot No. 25

16°W

12°W

9°N

9°N

5°N

16°W

12°W

5°N

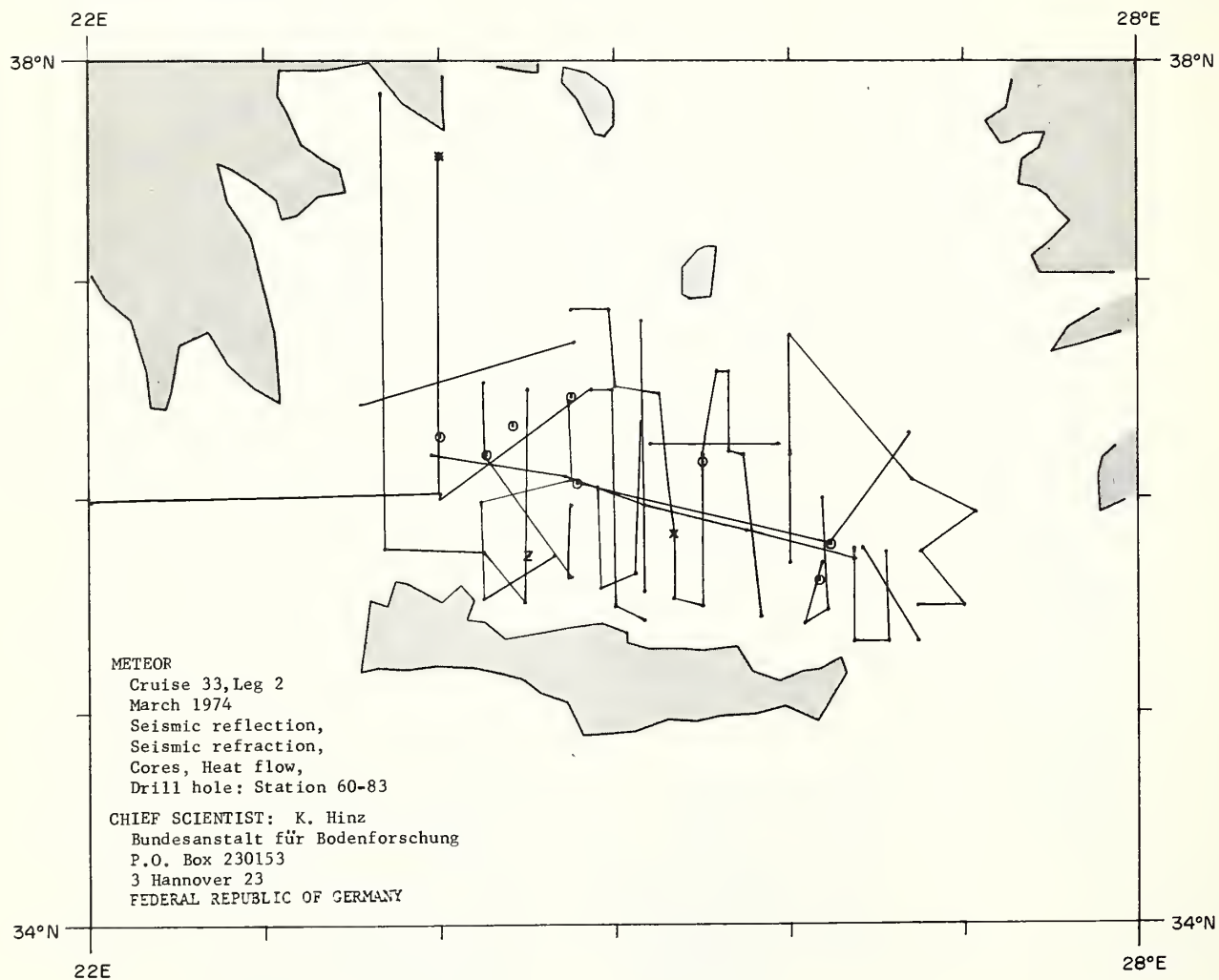
METEOR

Cruise CINECA/30  
March-April 1973  
Seismic reflection,  
Side scan sonar,  
Cores, Bottom photographs,  
Dredge/Grab, Bottom current,  
Near bottom water:  
Station Nos 140-333

RESPONSIBLE INSTITUTION:  
German Research Association  
Kennedyallee 40  
5300 Bonn-Bad Godesberg 1  
GERMANY

CHIEF SCIENTIST: W. Schott  
Bundesanstalt für Bodenforschung  
Alfred-Bentz-Haus  
D-3000 Hannover-Buchholz  
FEDERAL REPUBLIC OF GERMANY

# Plot No. 26



Plot No. 27

1°E

6°E

42°N

42°N

WINNARETTA SINGER

Cruise ANNA, Legs 2 and 3

October 1970

Seismic refraction

CHIEF SCIENTIST: Karl Hinz

Bundesanstalt für Geowissenschaften  
und Rohstoffe

Postfach 23 01 53

D-3000 Hannover-Buchholz

FEDERAL REPUBLIC OF GERMANY

40°

40°

37°N

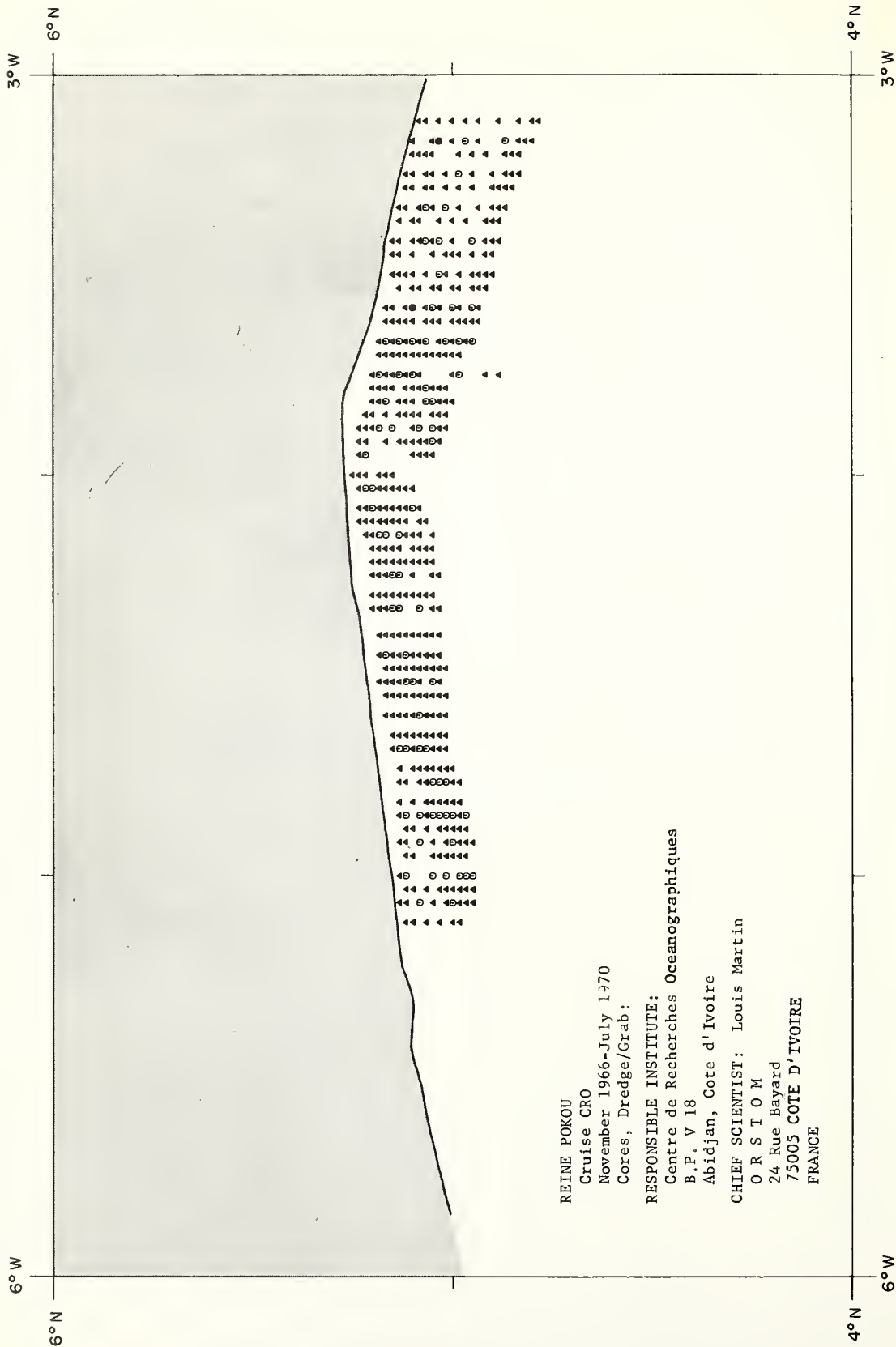
37°N

1°E

6°E



Plot No. 28

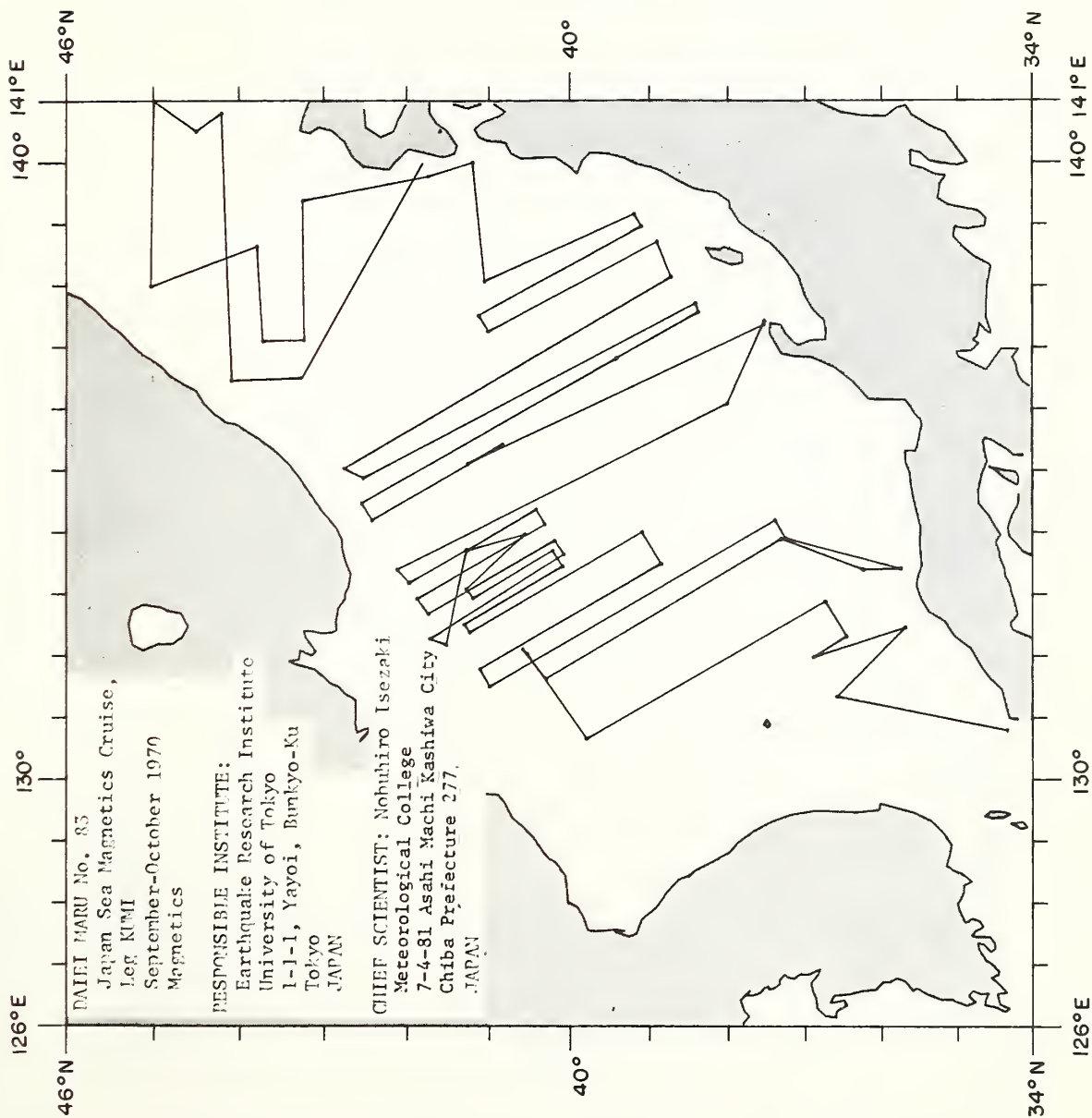


REINE POKOU  
Cruise CRO  
November 1966-July 1970  
Cores, Dredge/Grab:

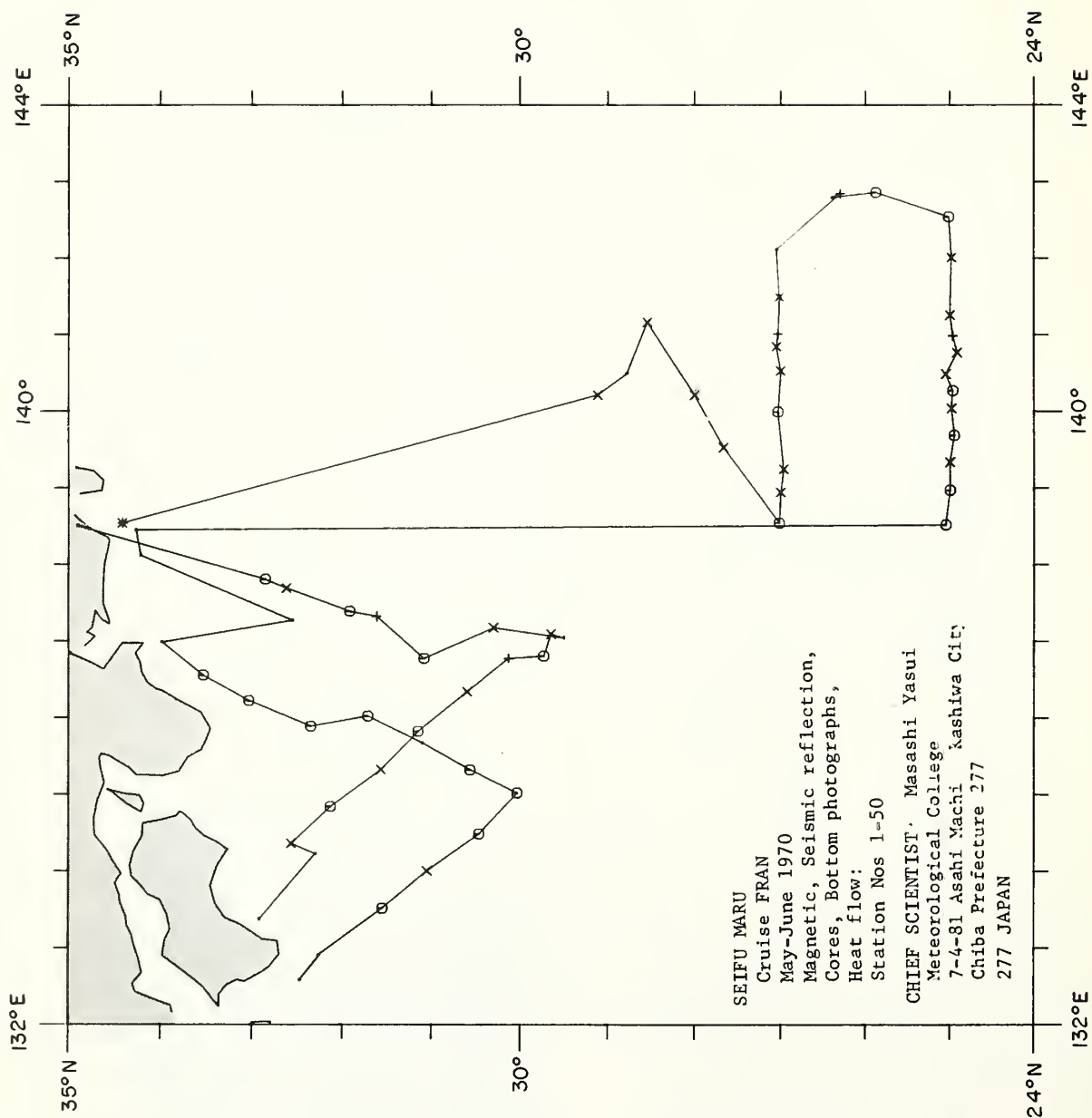
RESPONSIBLE INSTITUTE:  
Centre de Recherches Oceanographiques  
B.P. V 18  
Abidjan, Cote d'Ivoire

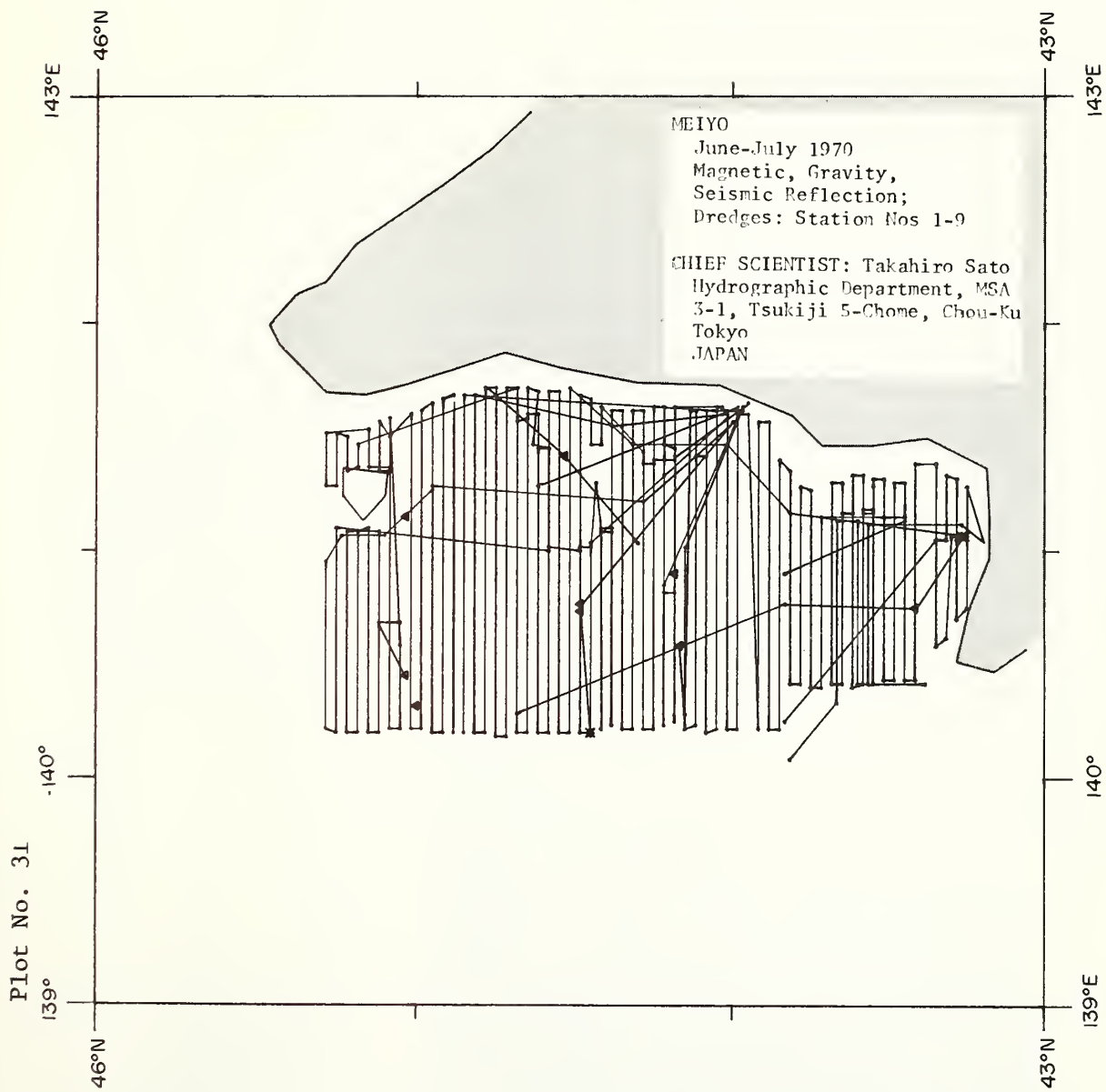
CHIEF SCIENTIST: Louis Martin  
O R S T O M  
24 Rue Bayard  
75005 COTE D'IVOIRE  
FRANCE

# Plot No. 29

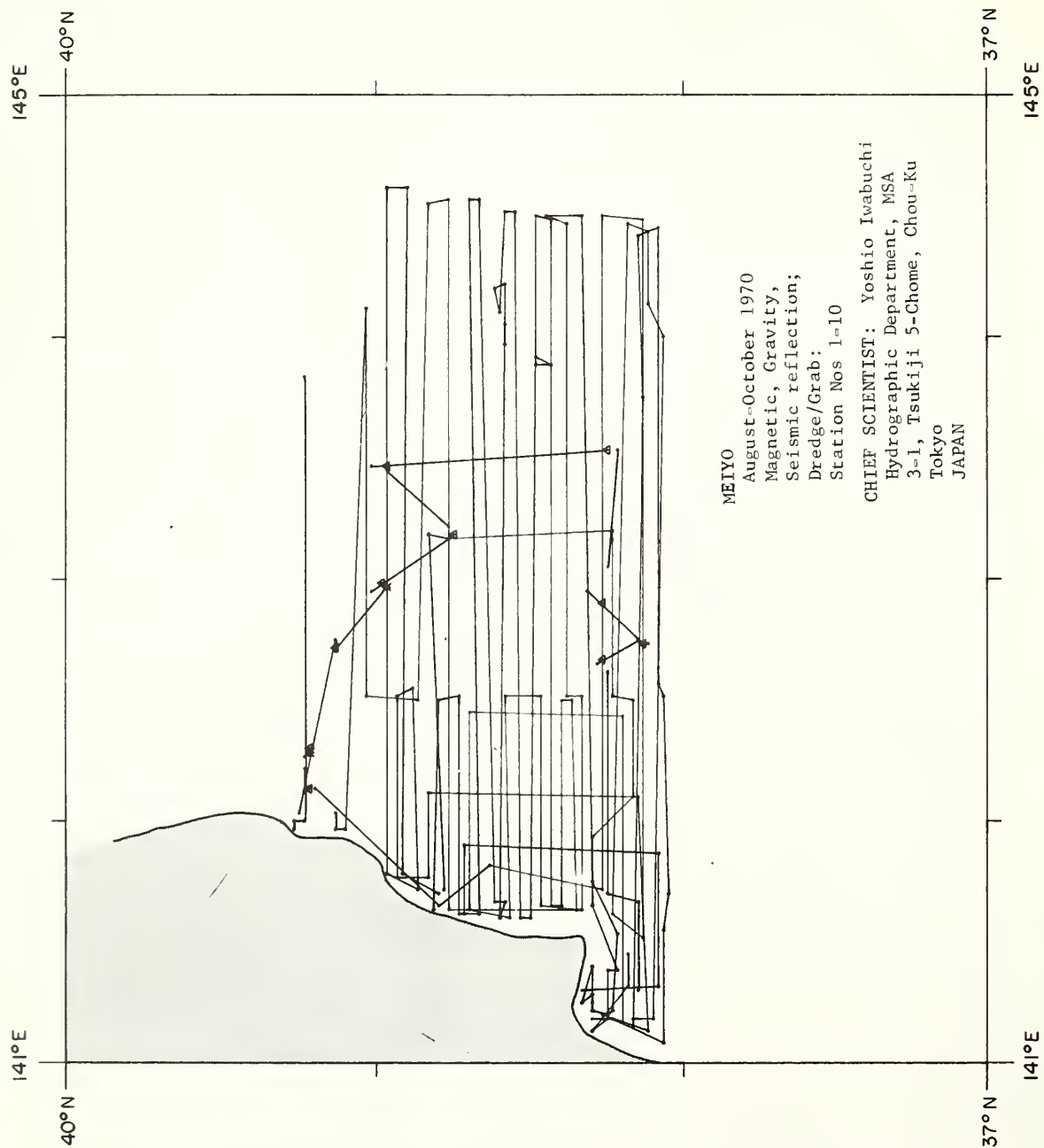


Plot No. 30

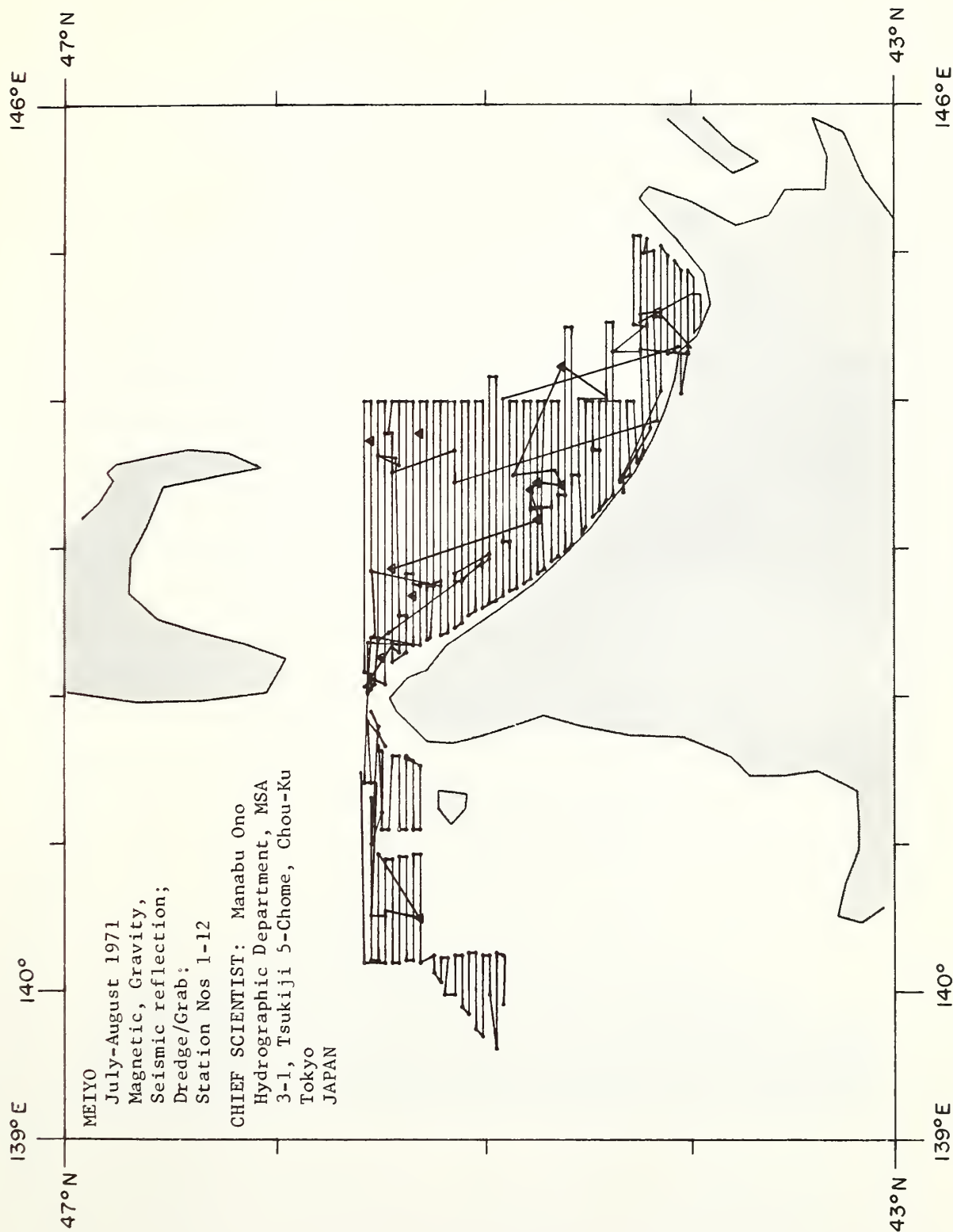




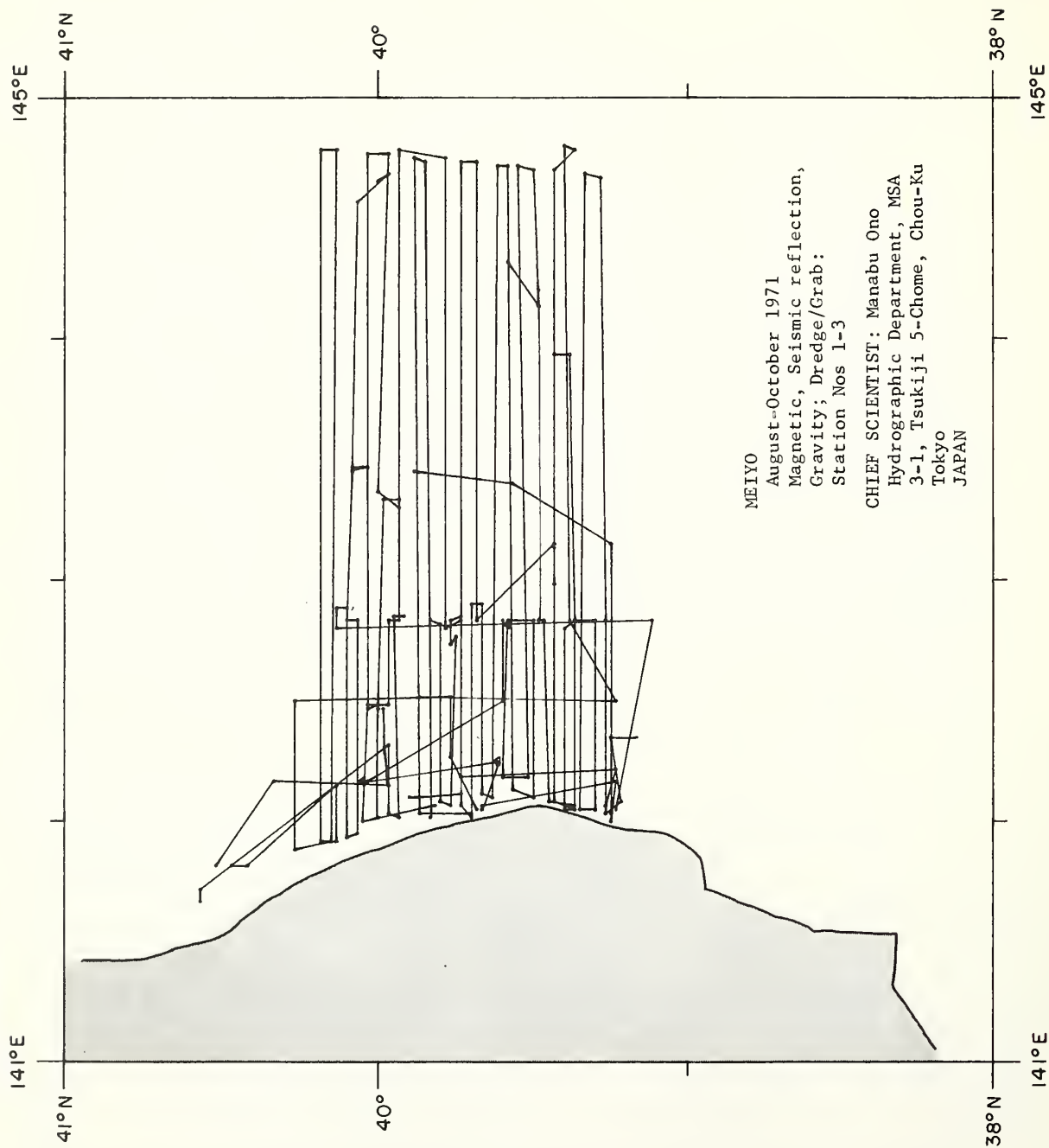
Plot No. 32



Plot No. 33

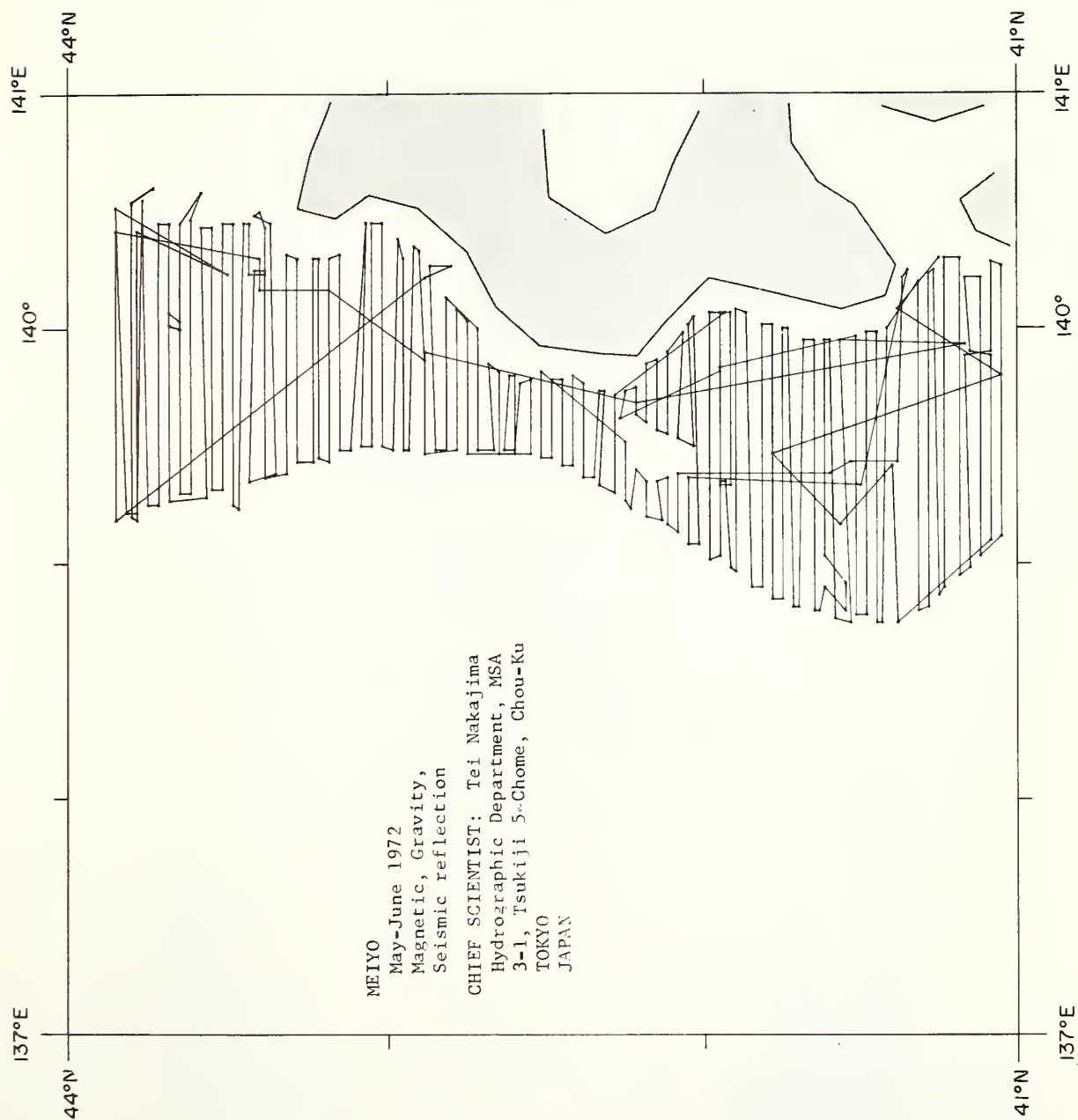


Plot No. 34

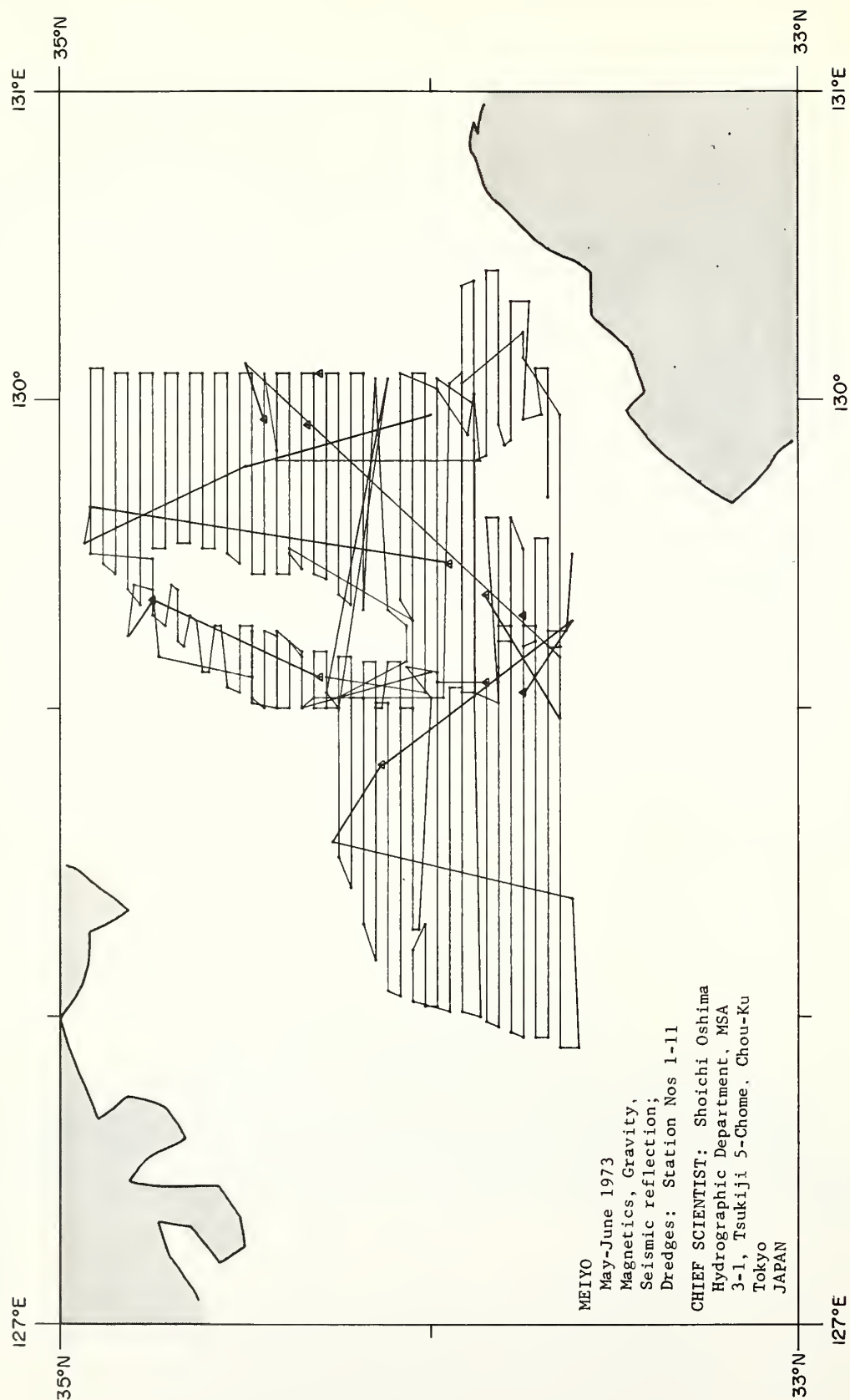


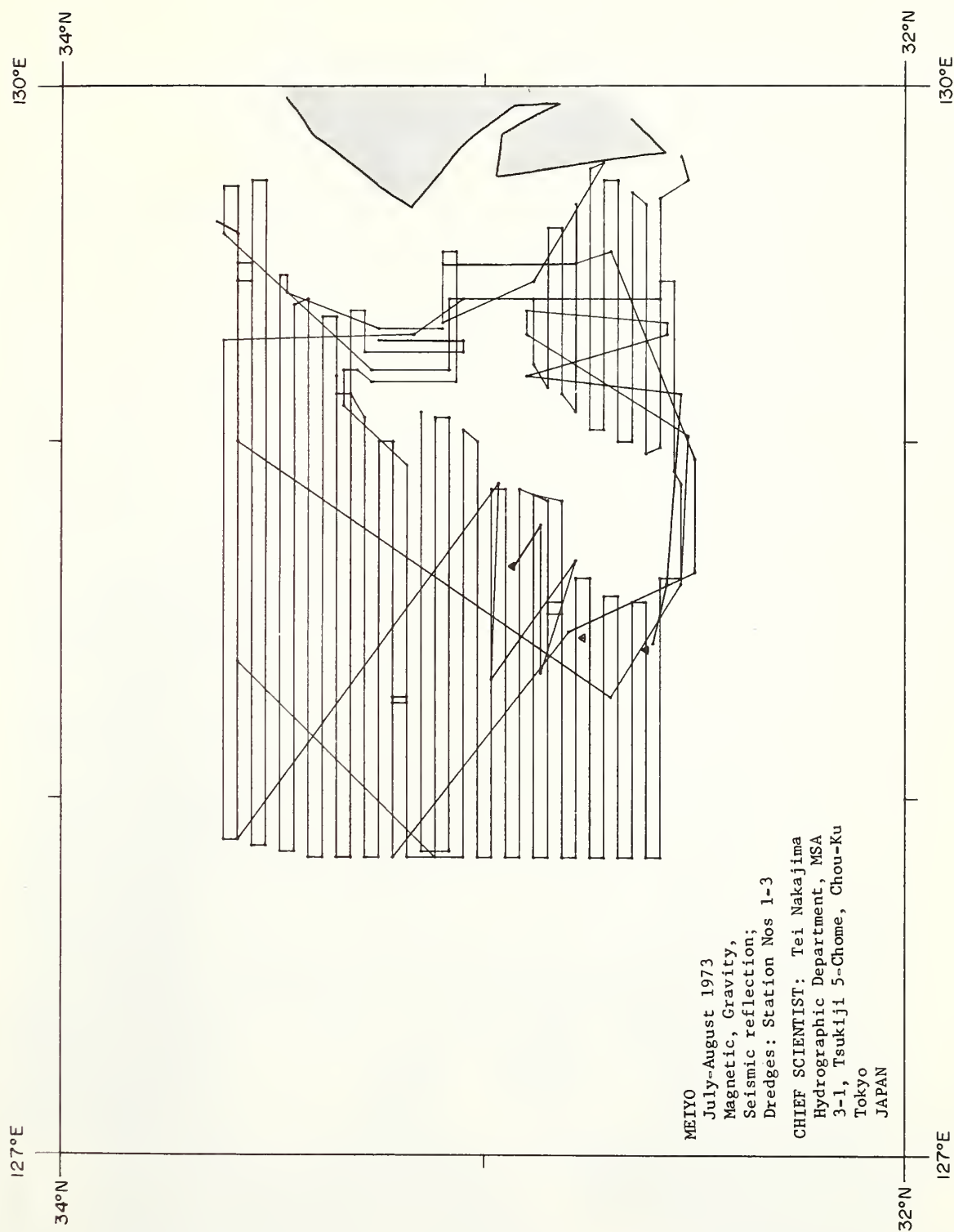


Plot No. 35



Plot No. 36

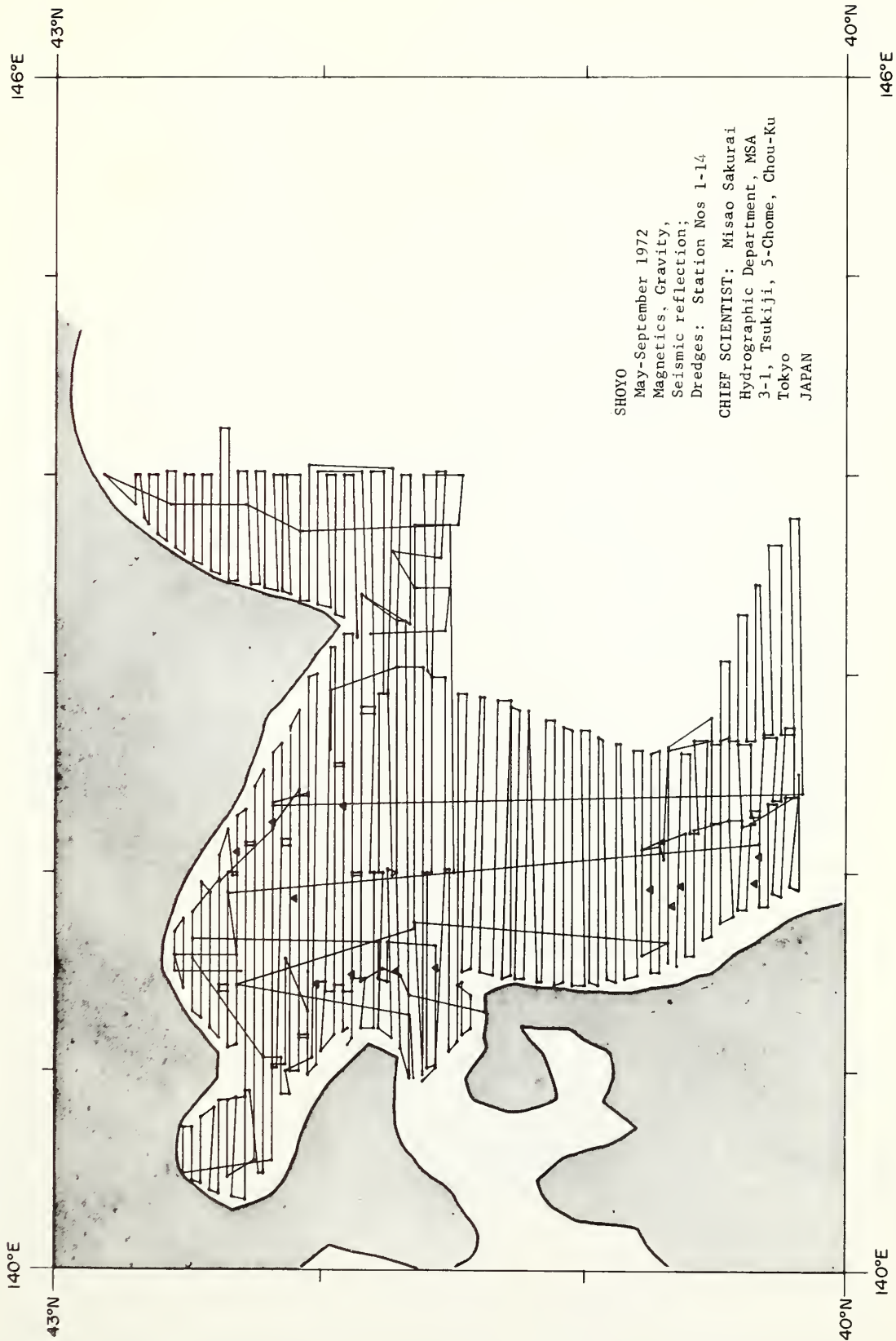




Plot No. 38

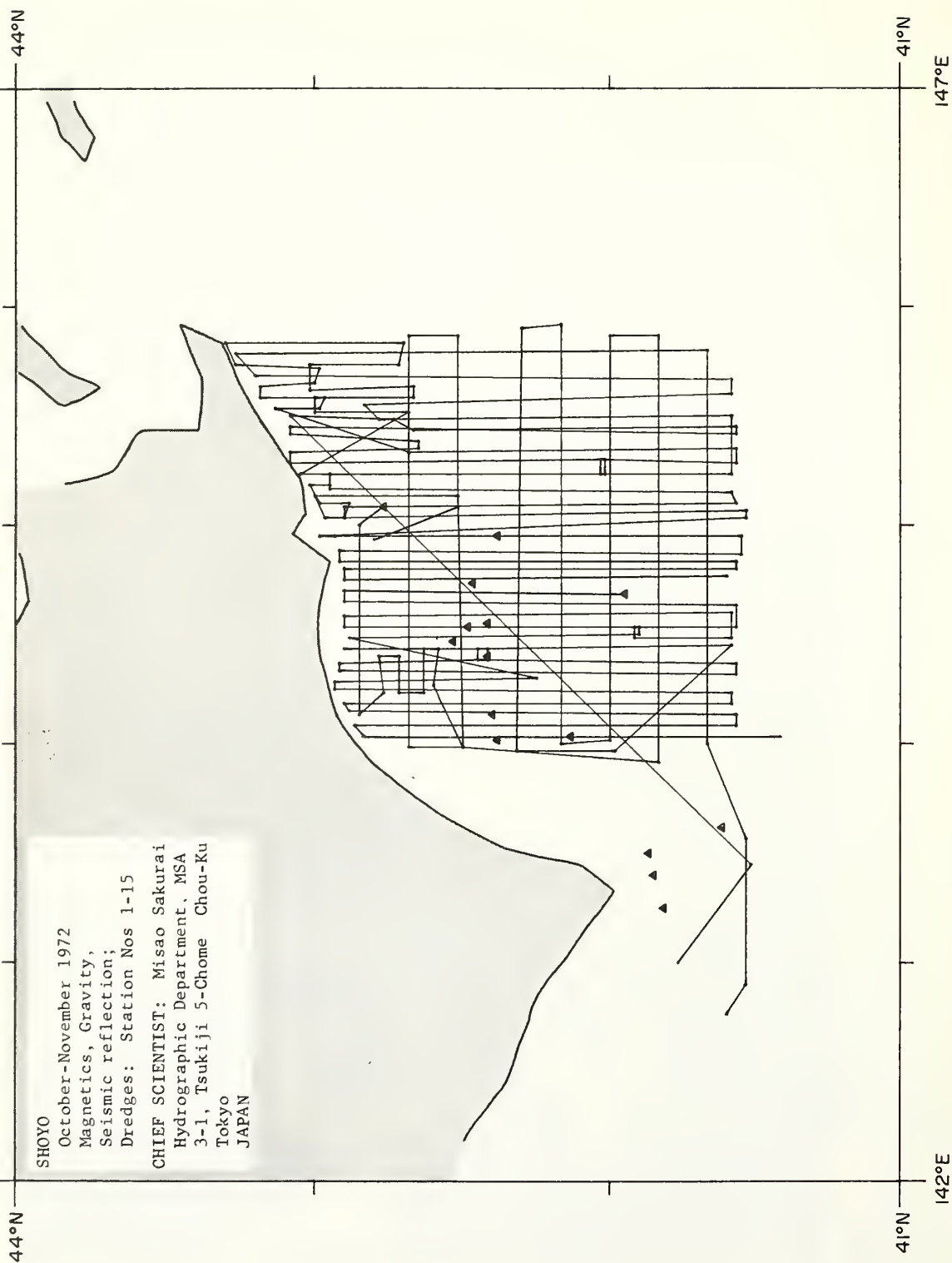


Plot No. 39

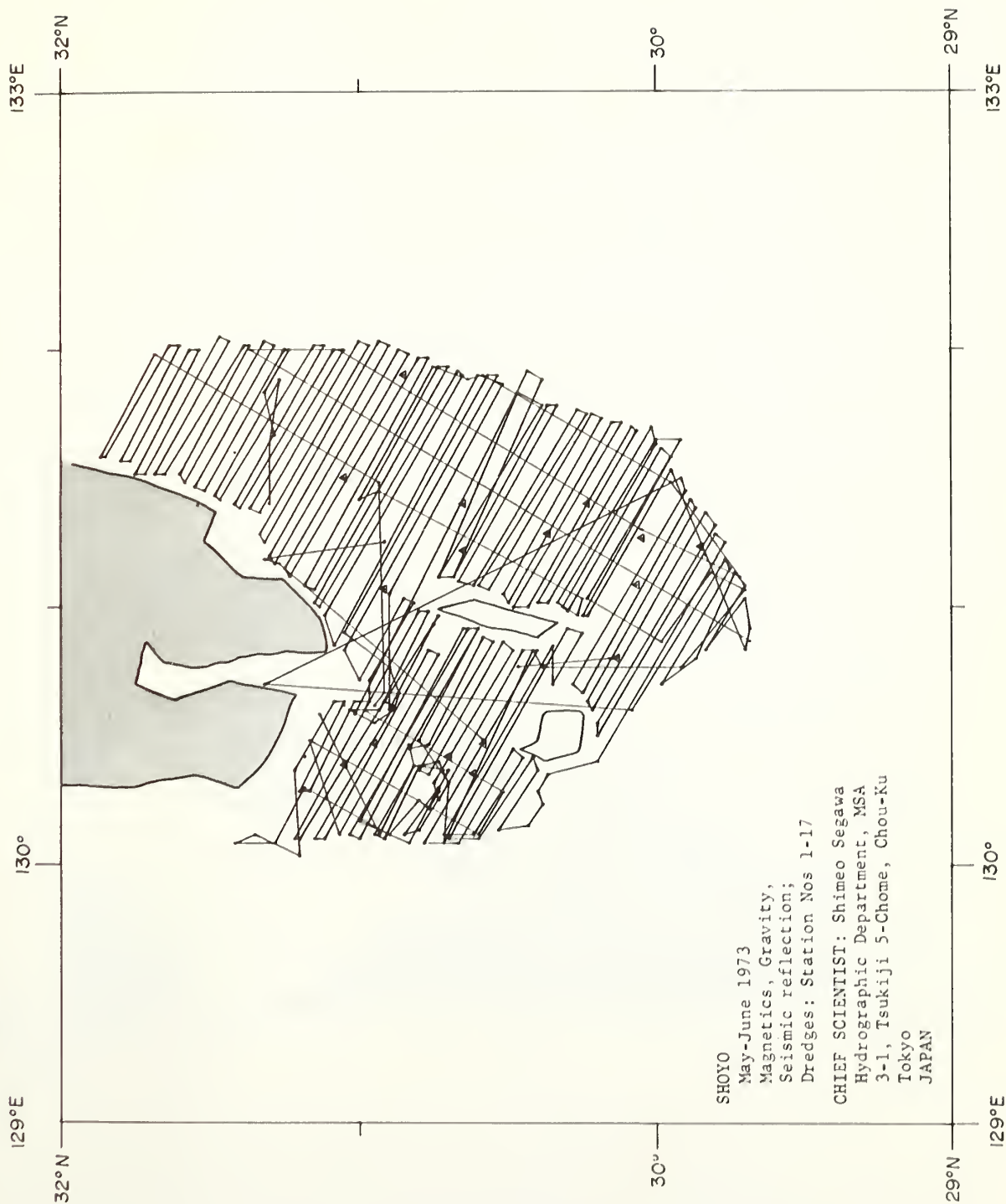


Plot No. 40

142°E

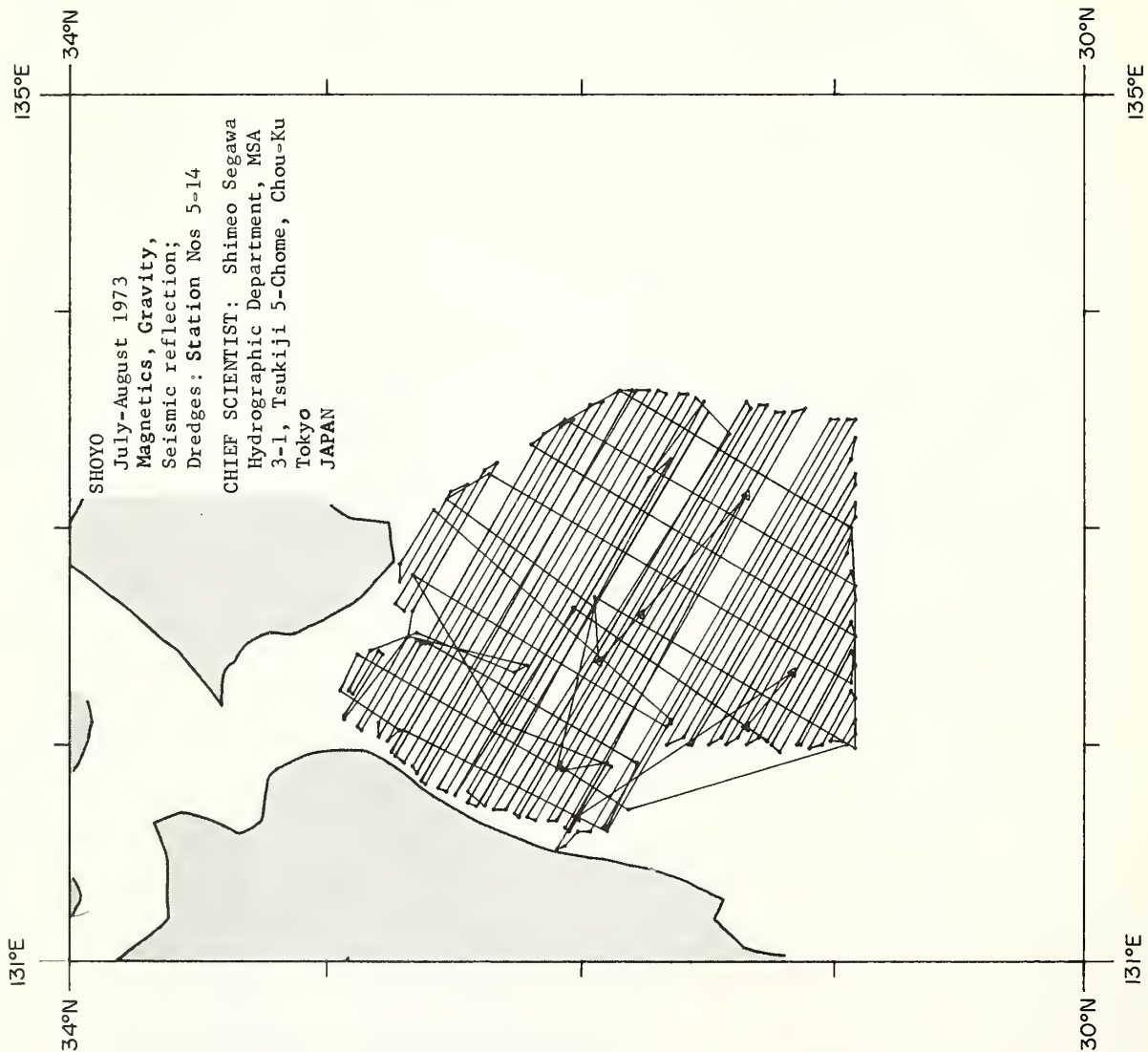


Plot No. 41

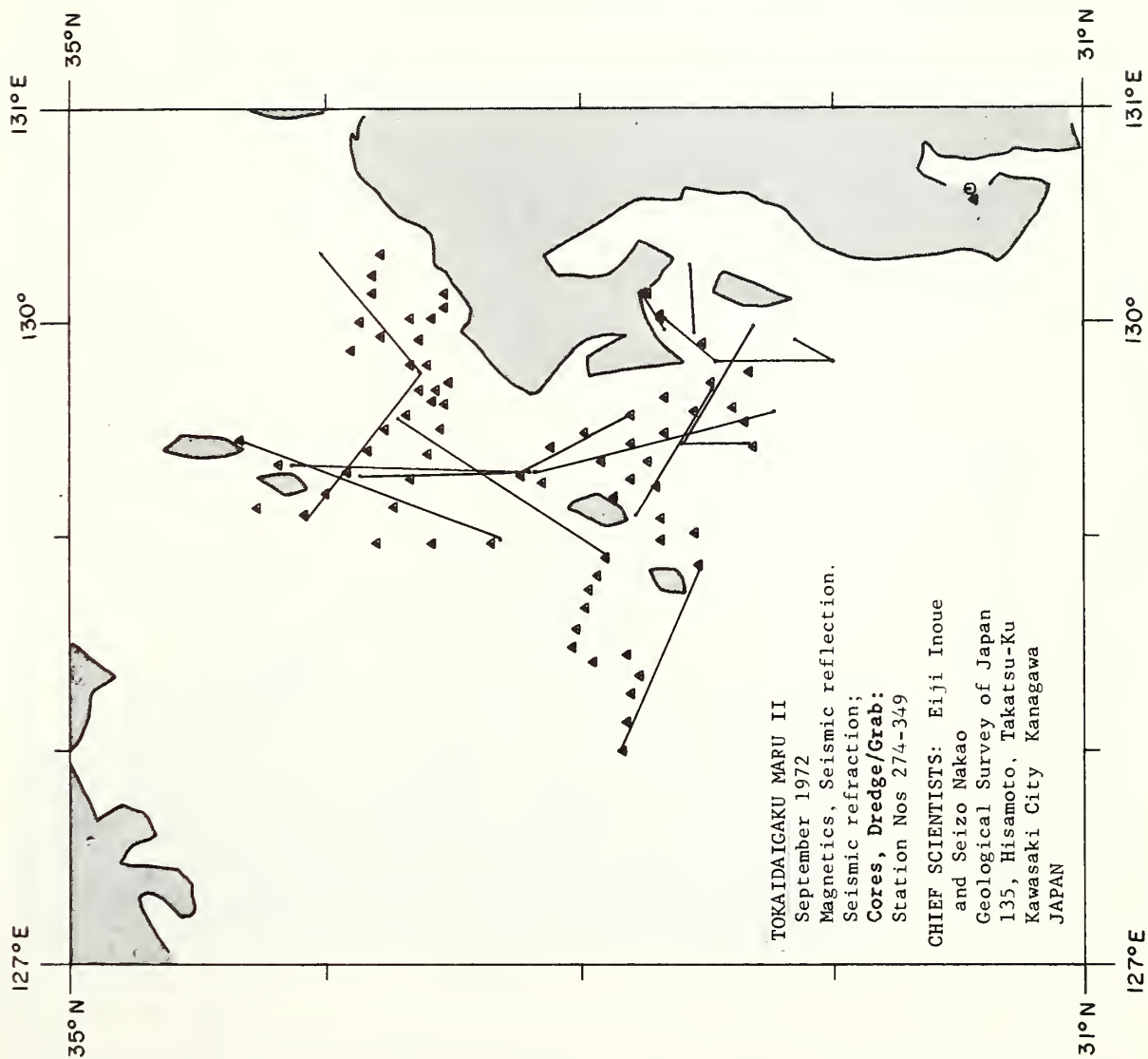




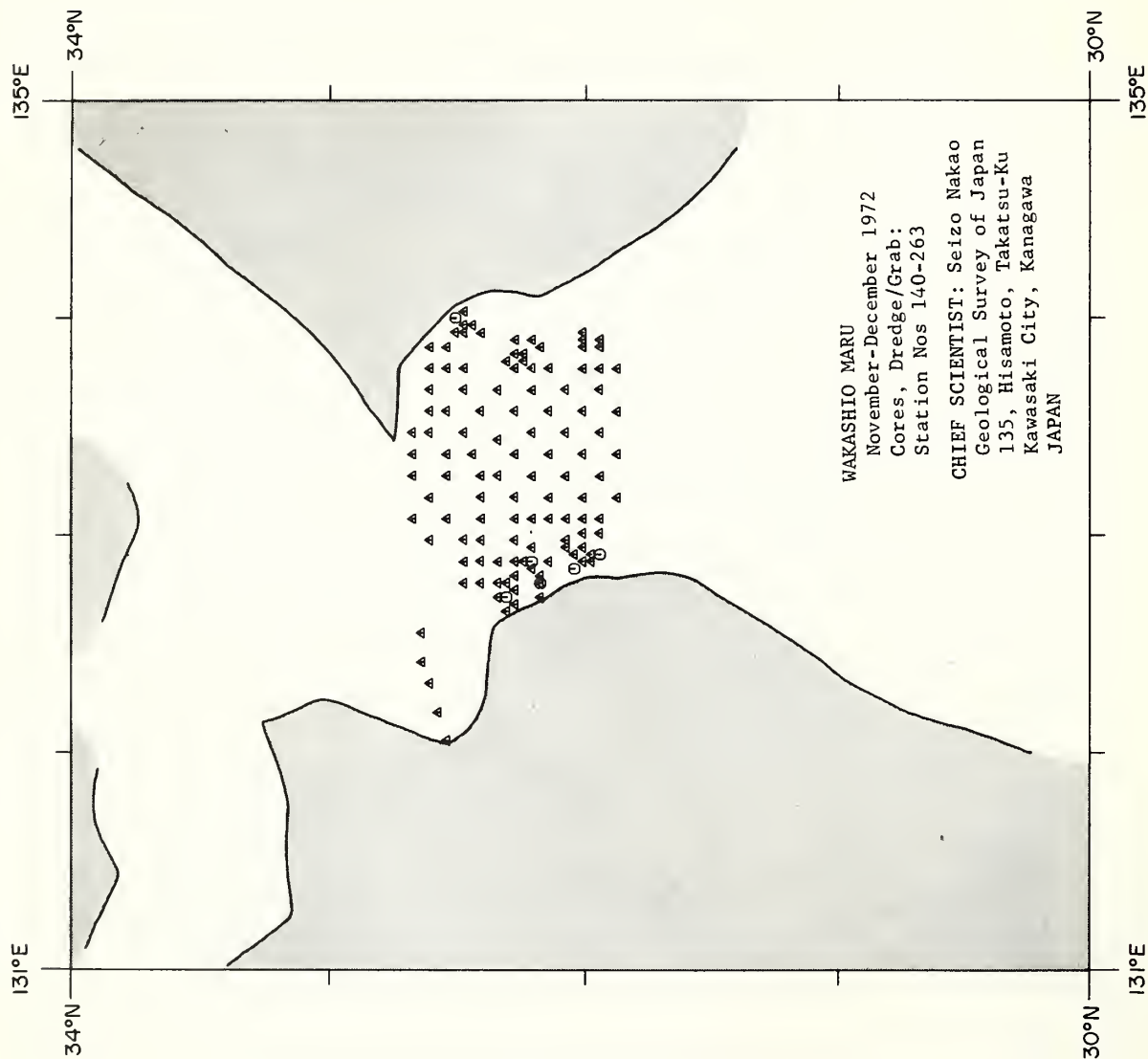
Plot No. 42

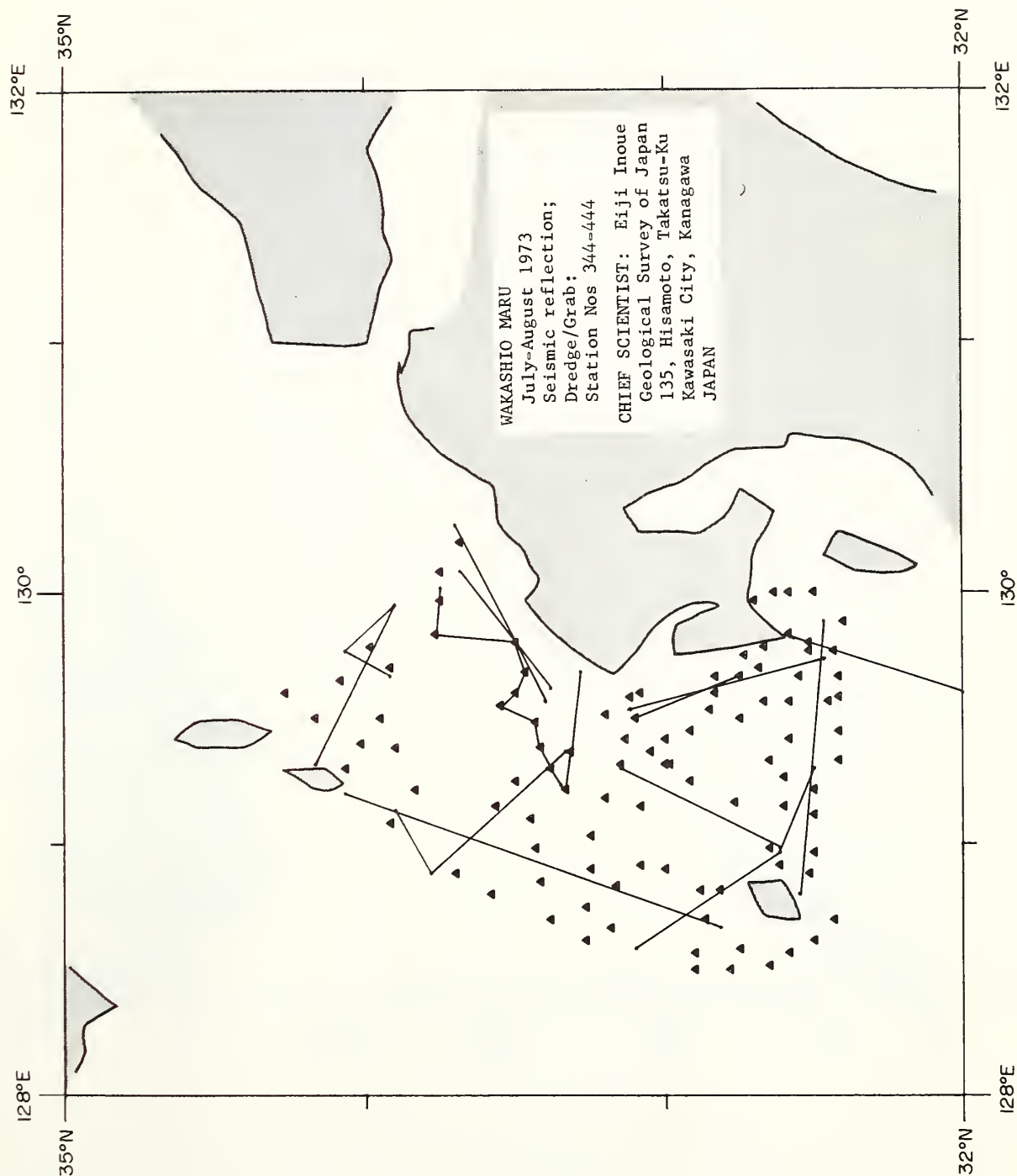


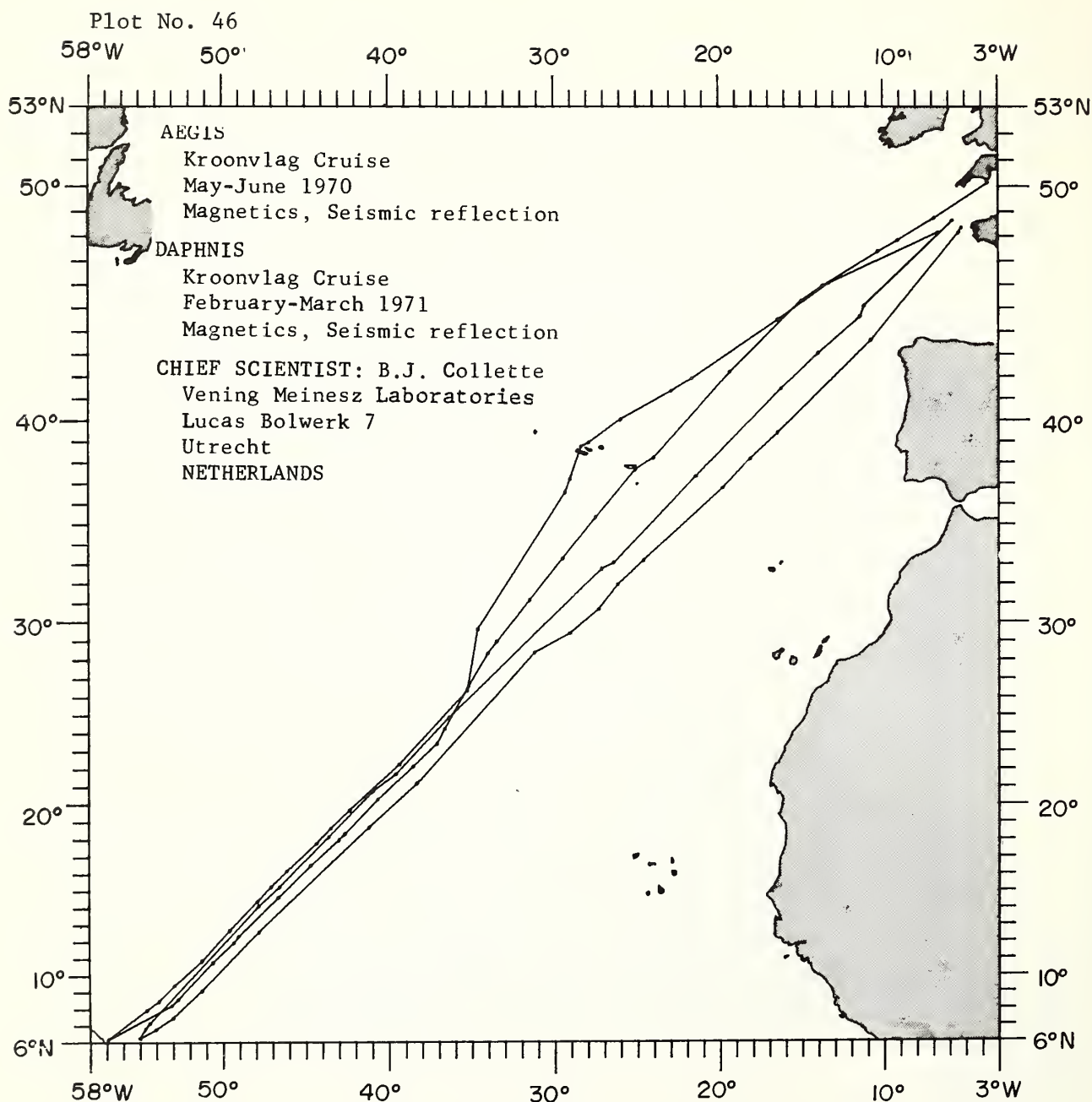
Plot No. 43

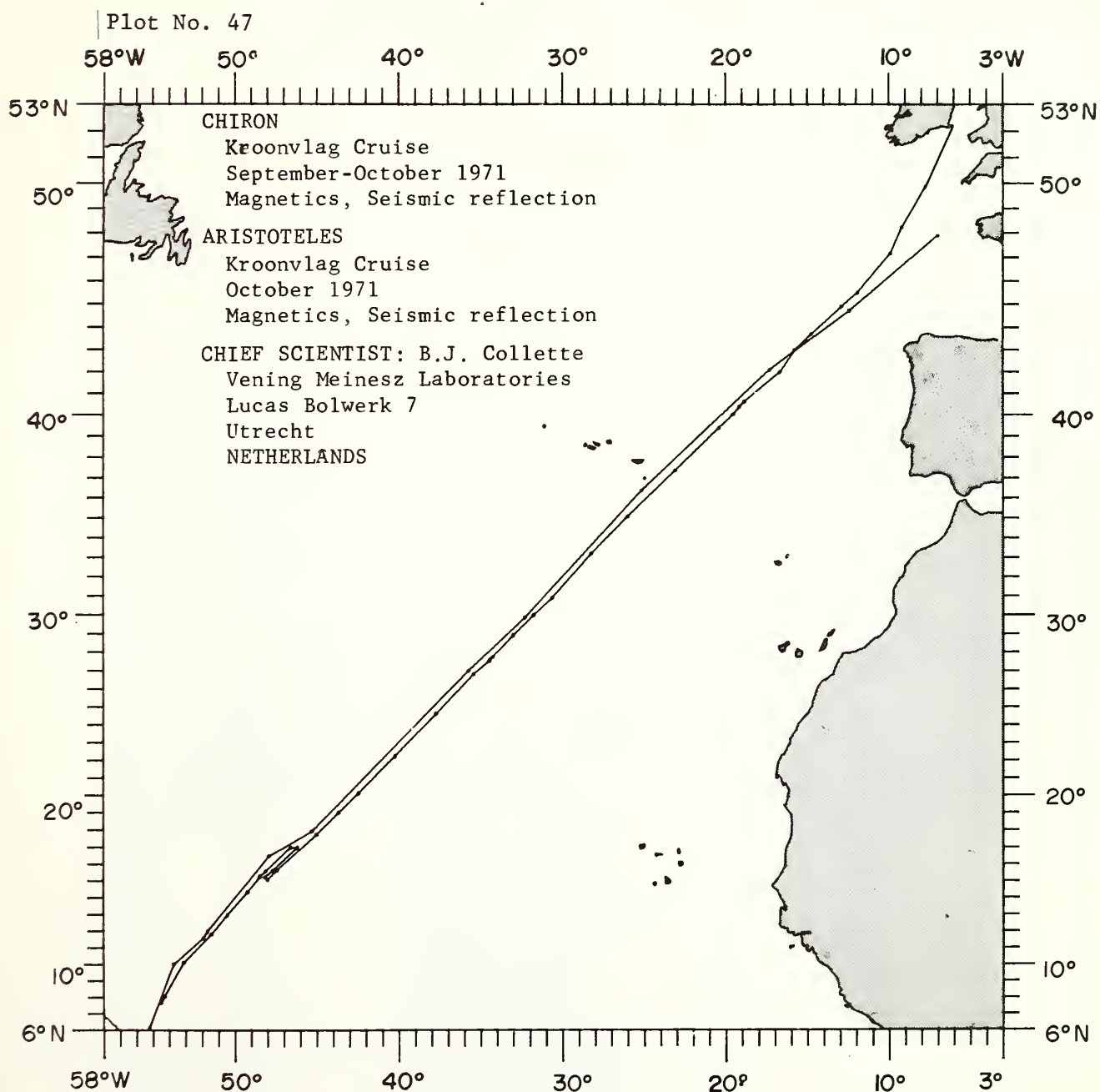


Plot No. 44

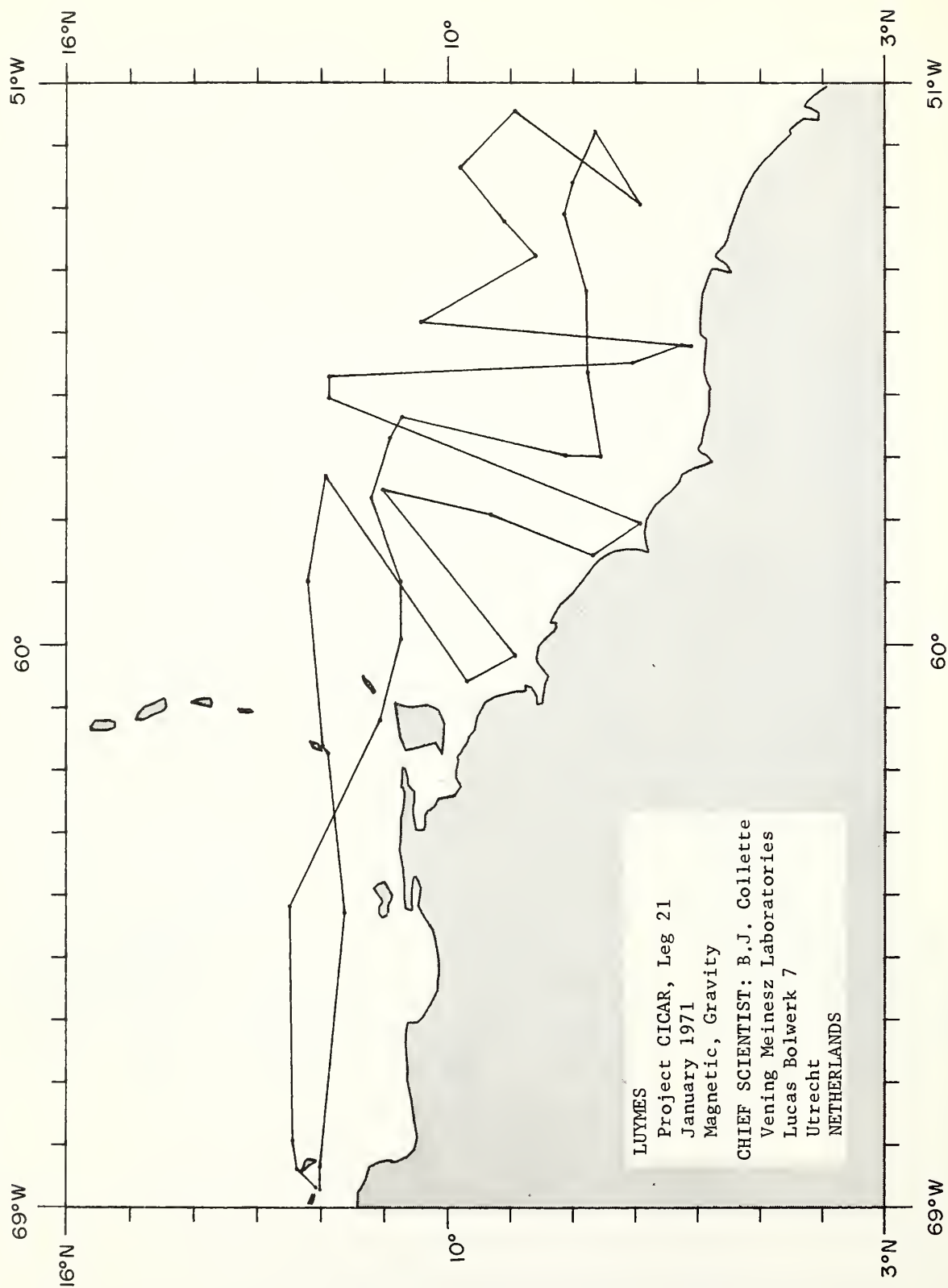






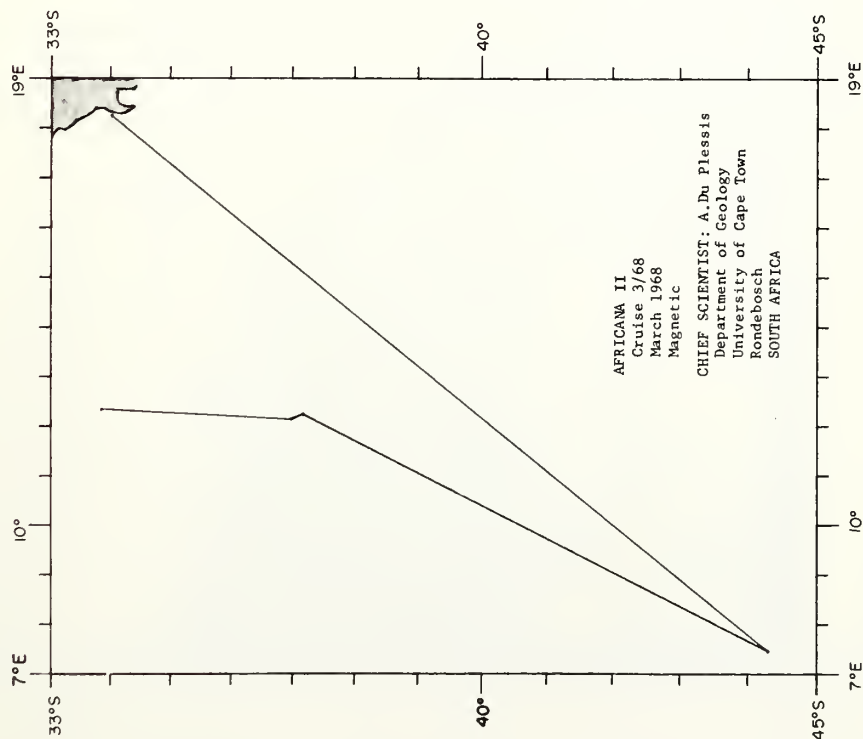


Plot No. 48

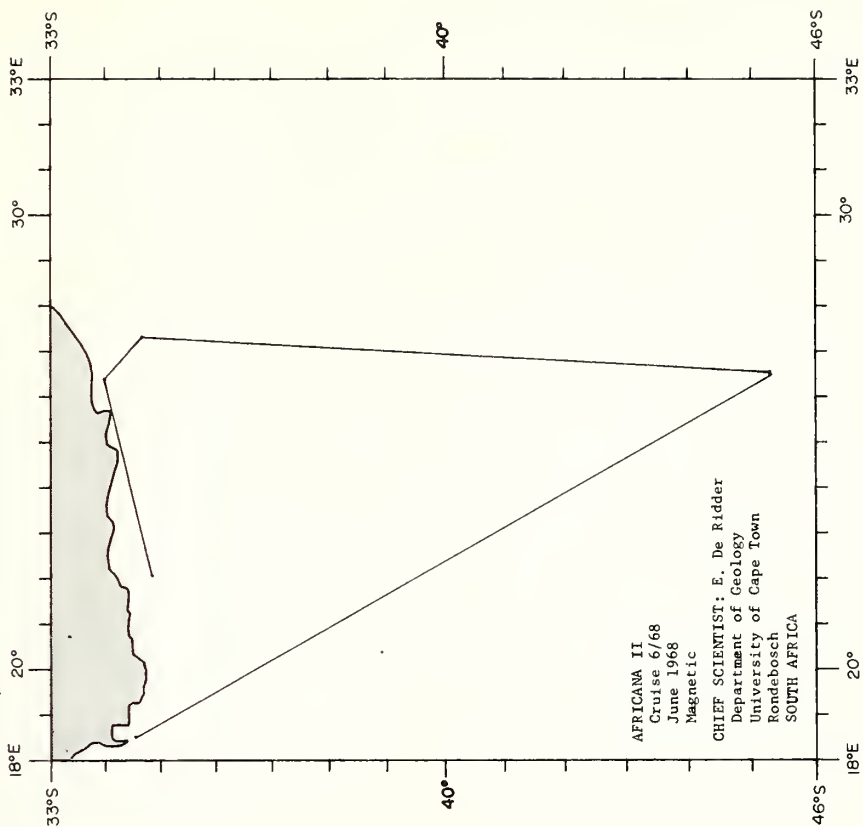




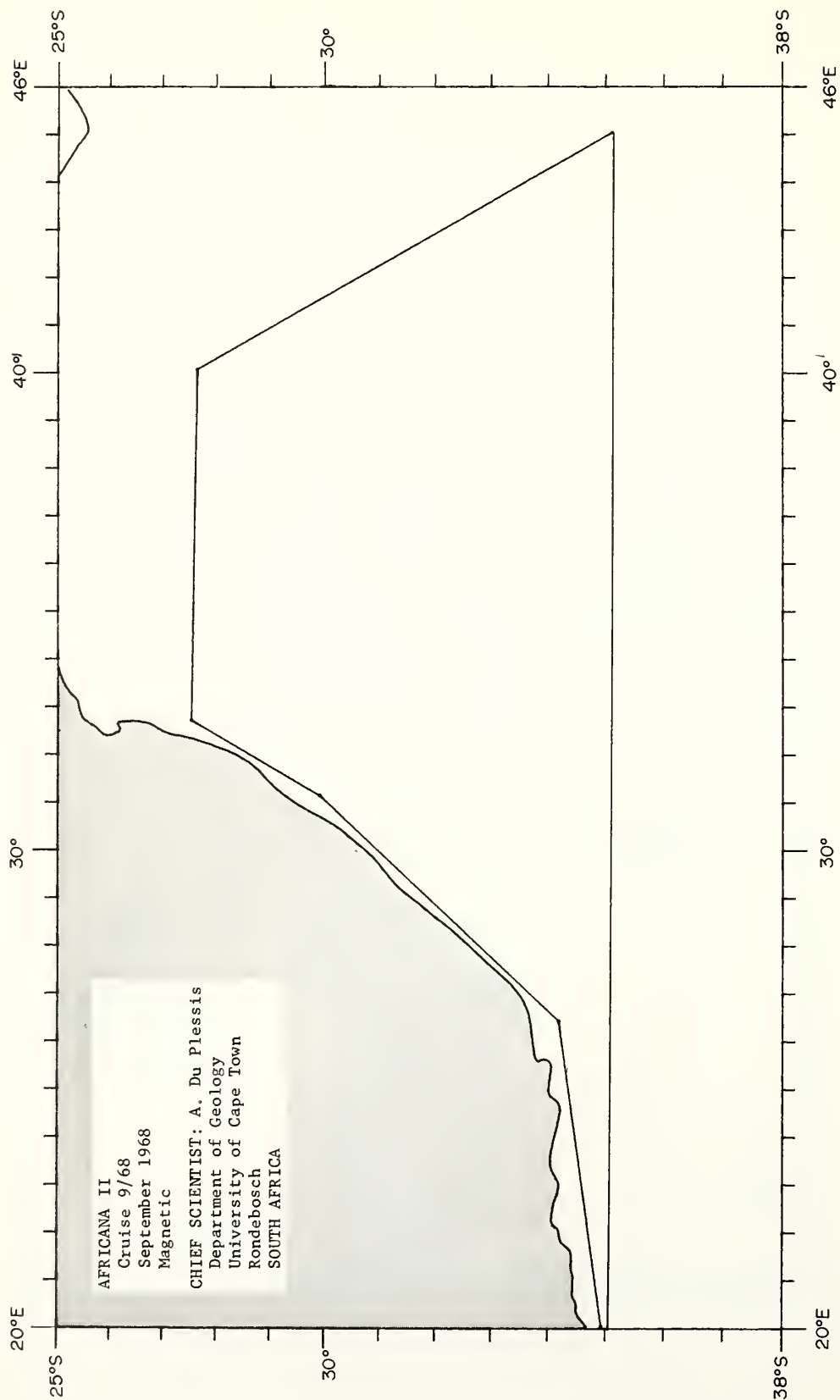
Plot No. 49

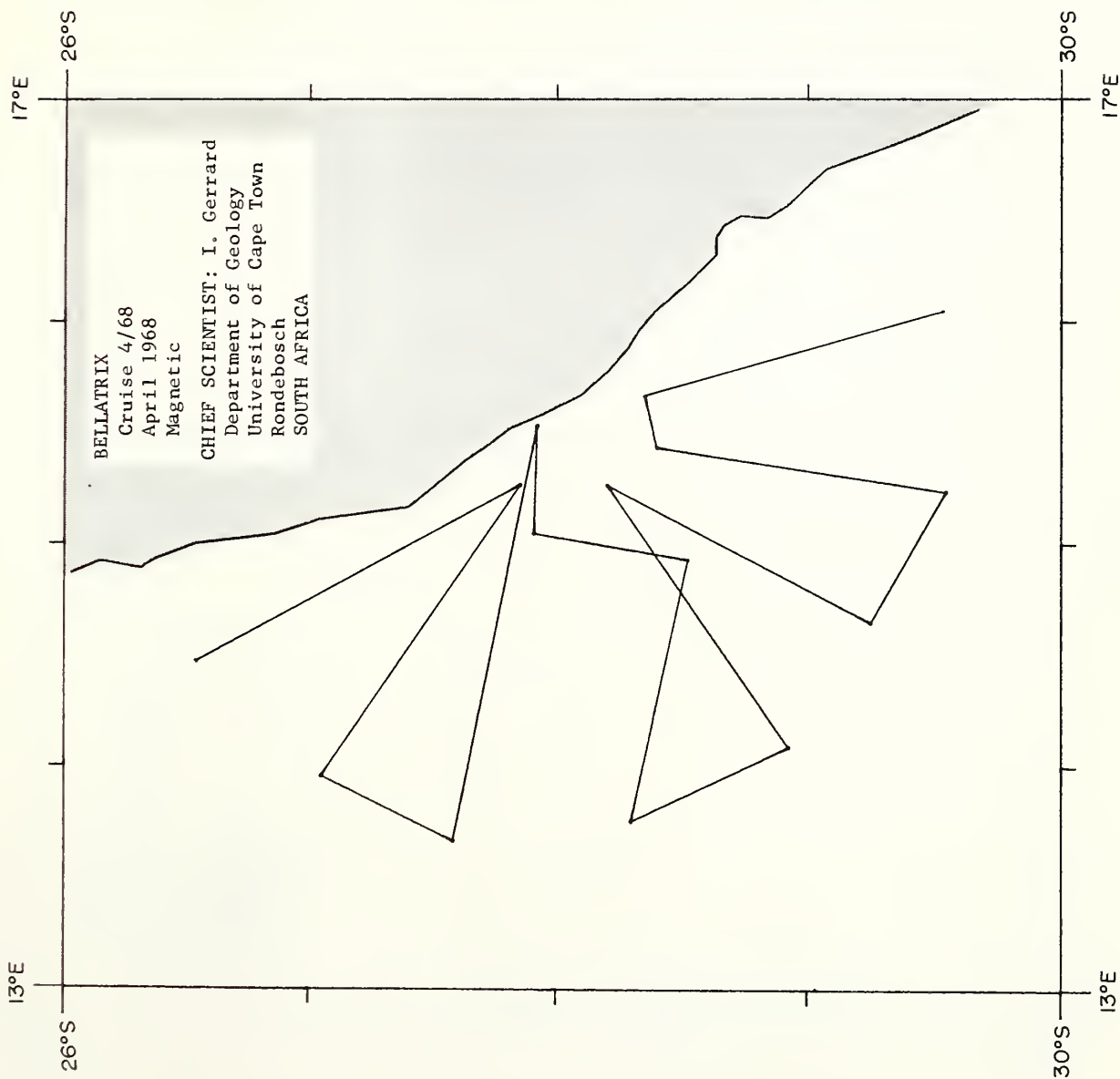


Plot No. 50

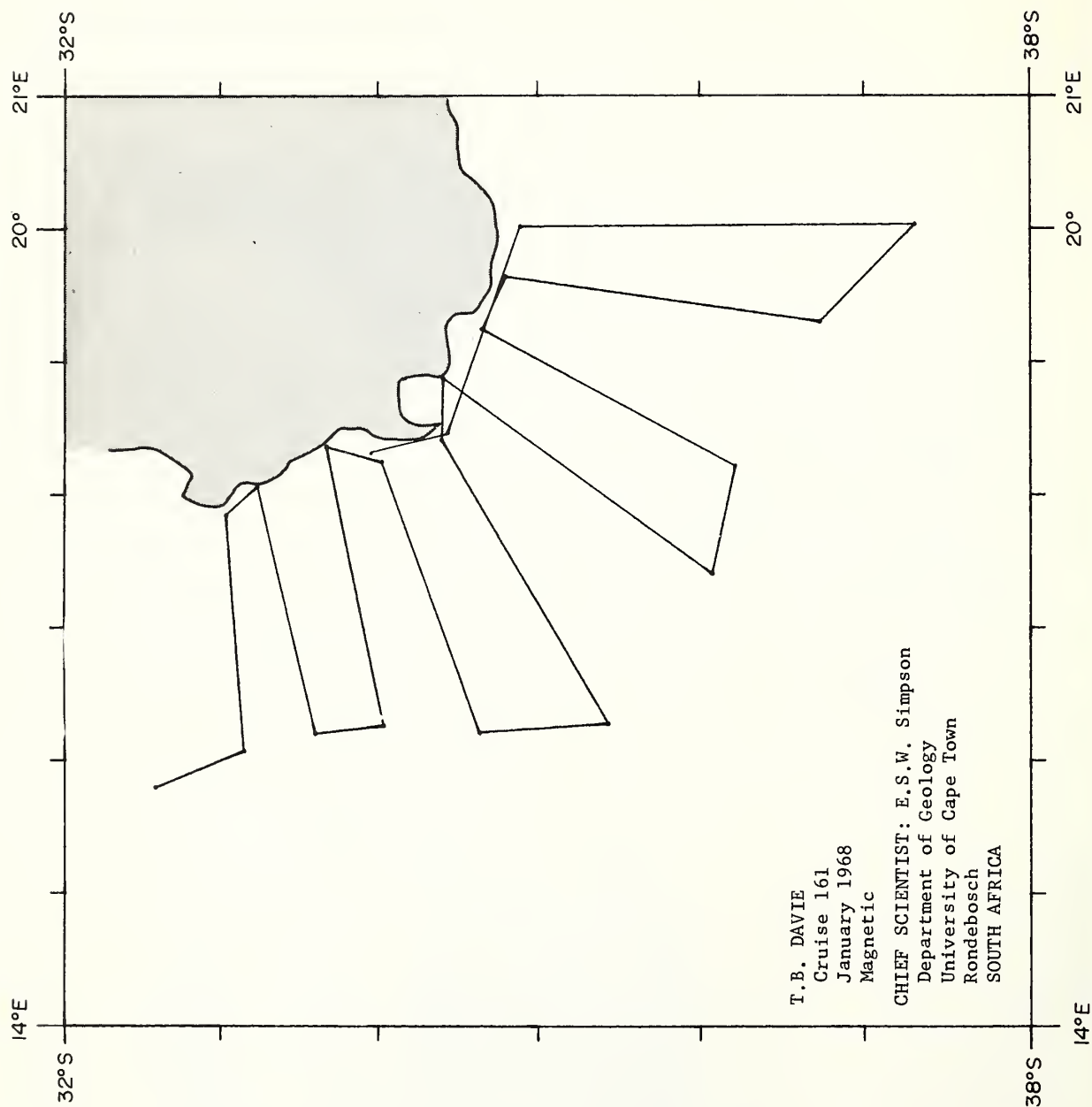


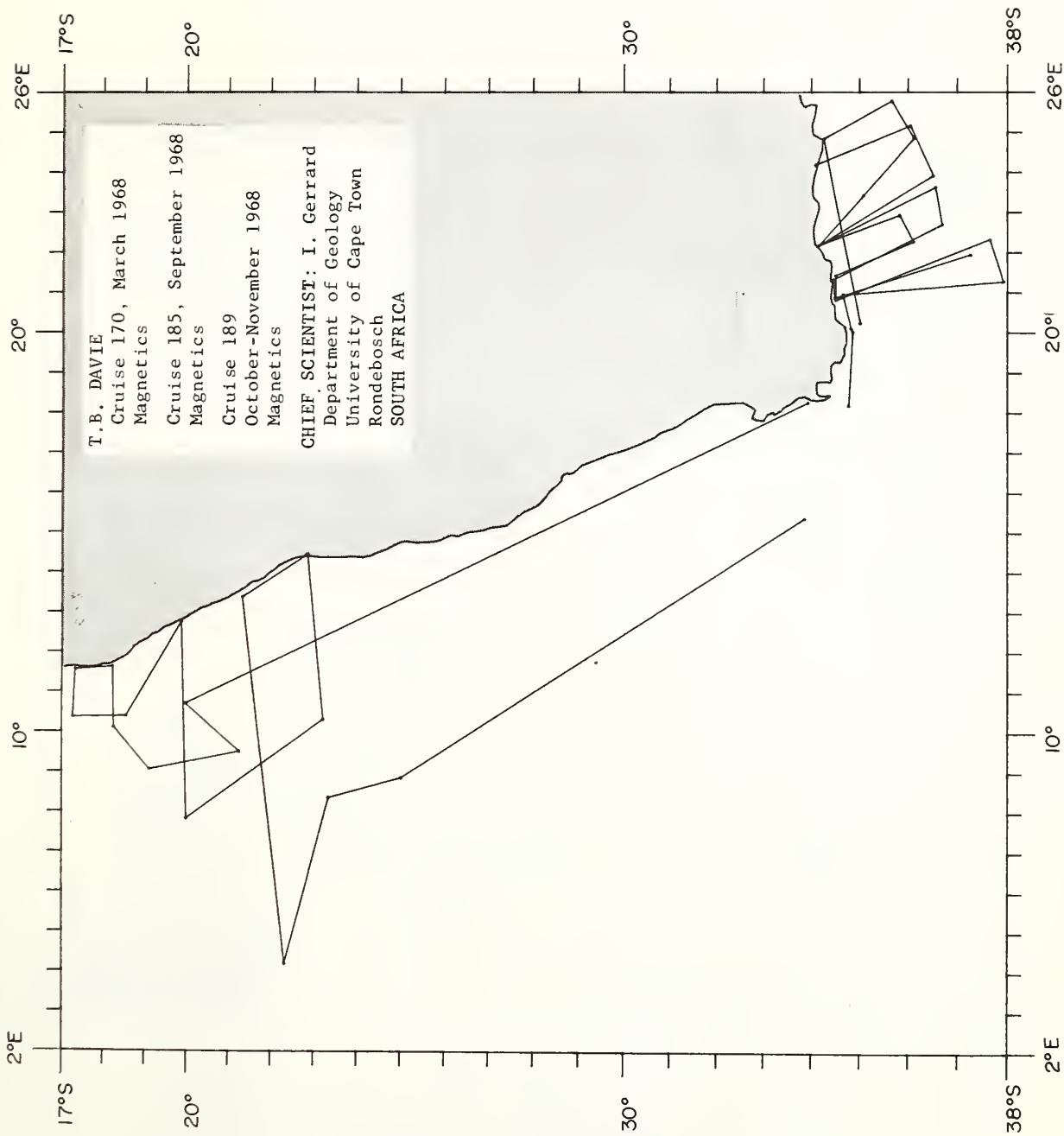
Plot No. 51



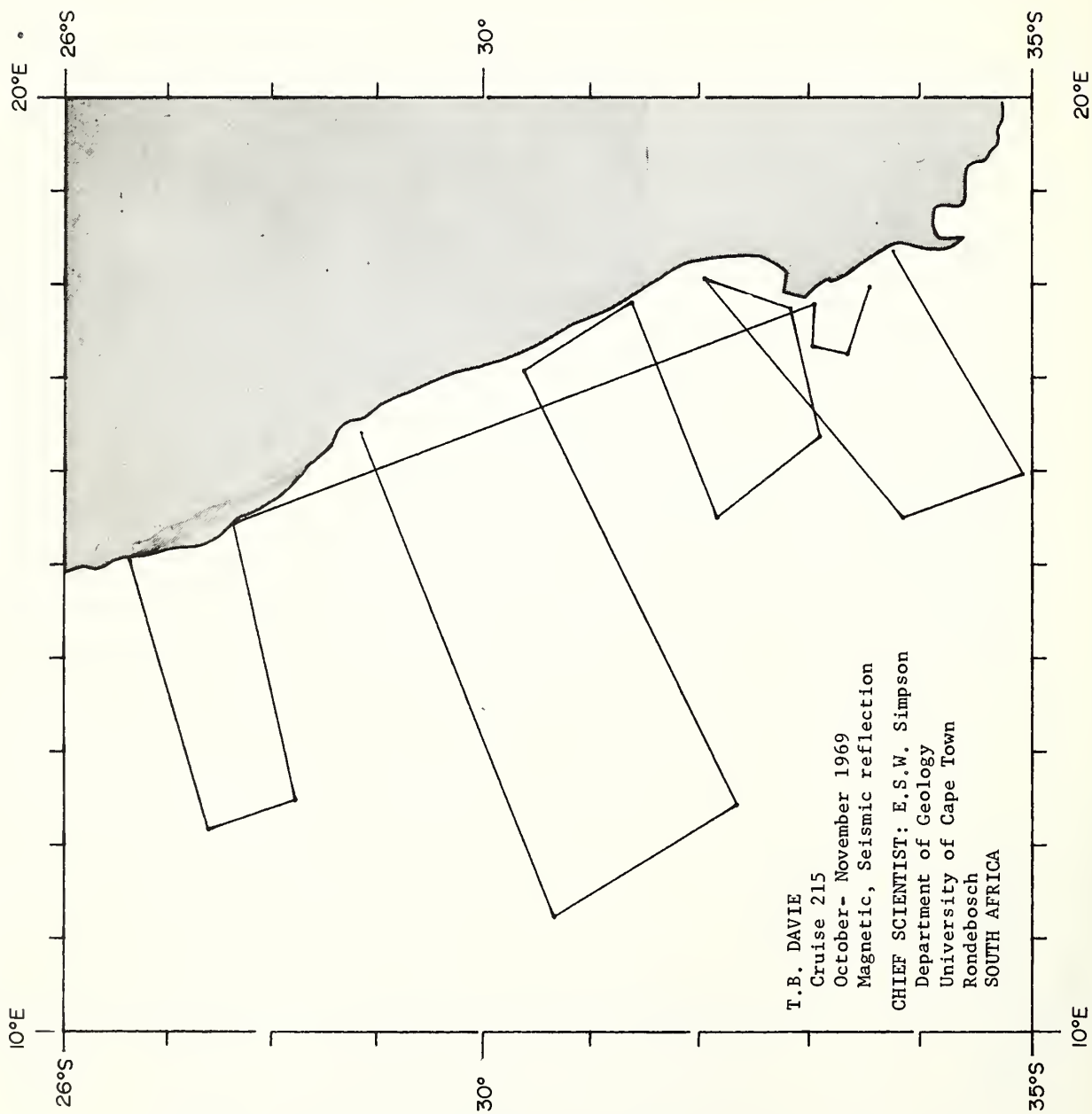


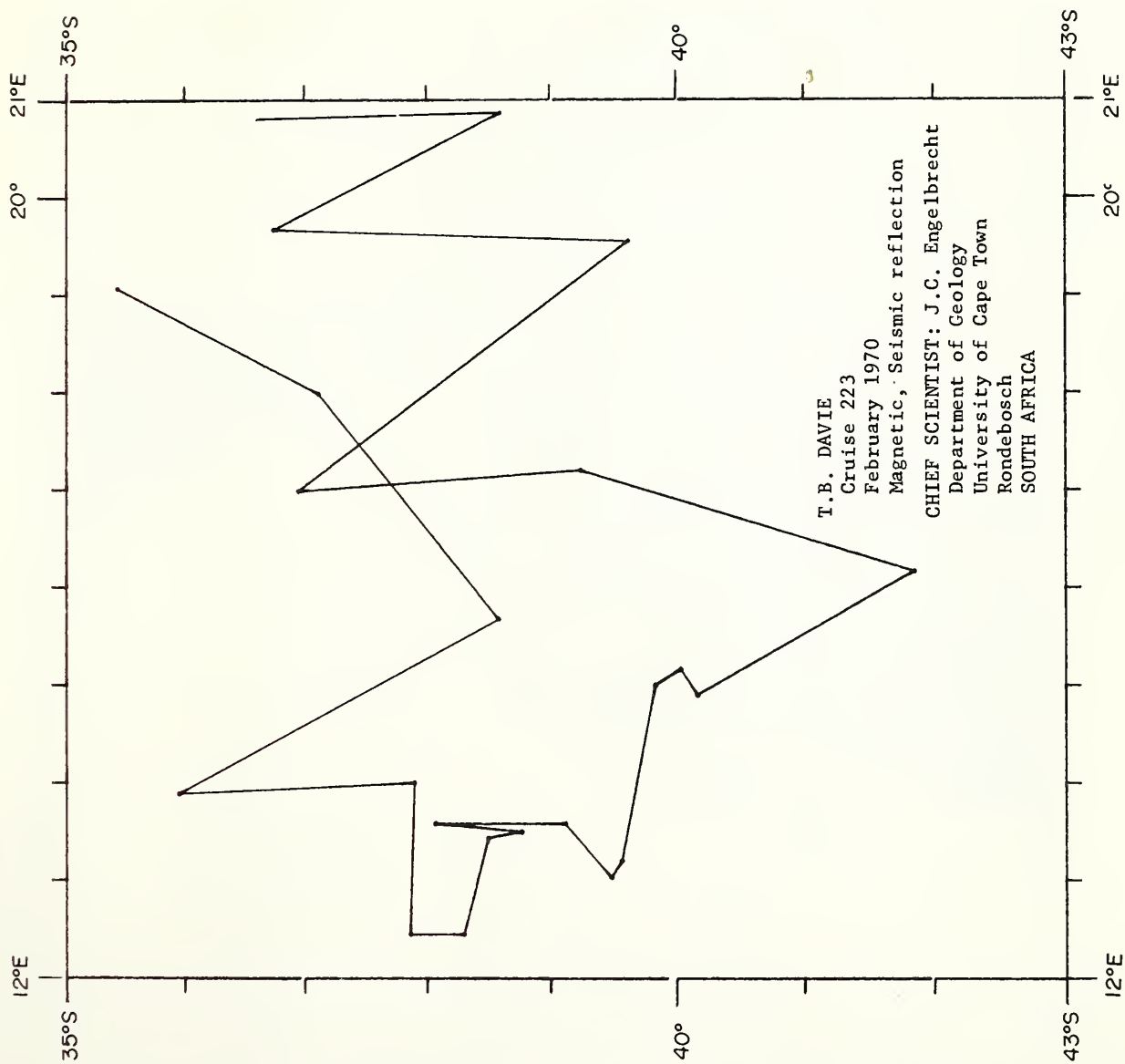
Plot No. 53





Plot No. 55

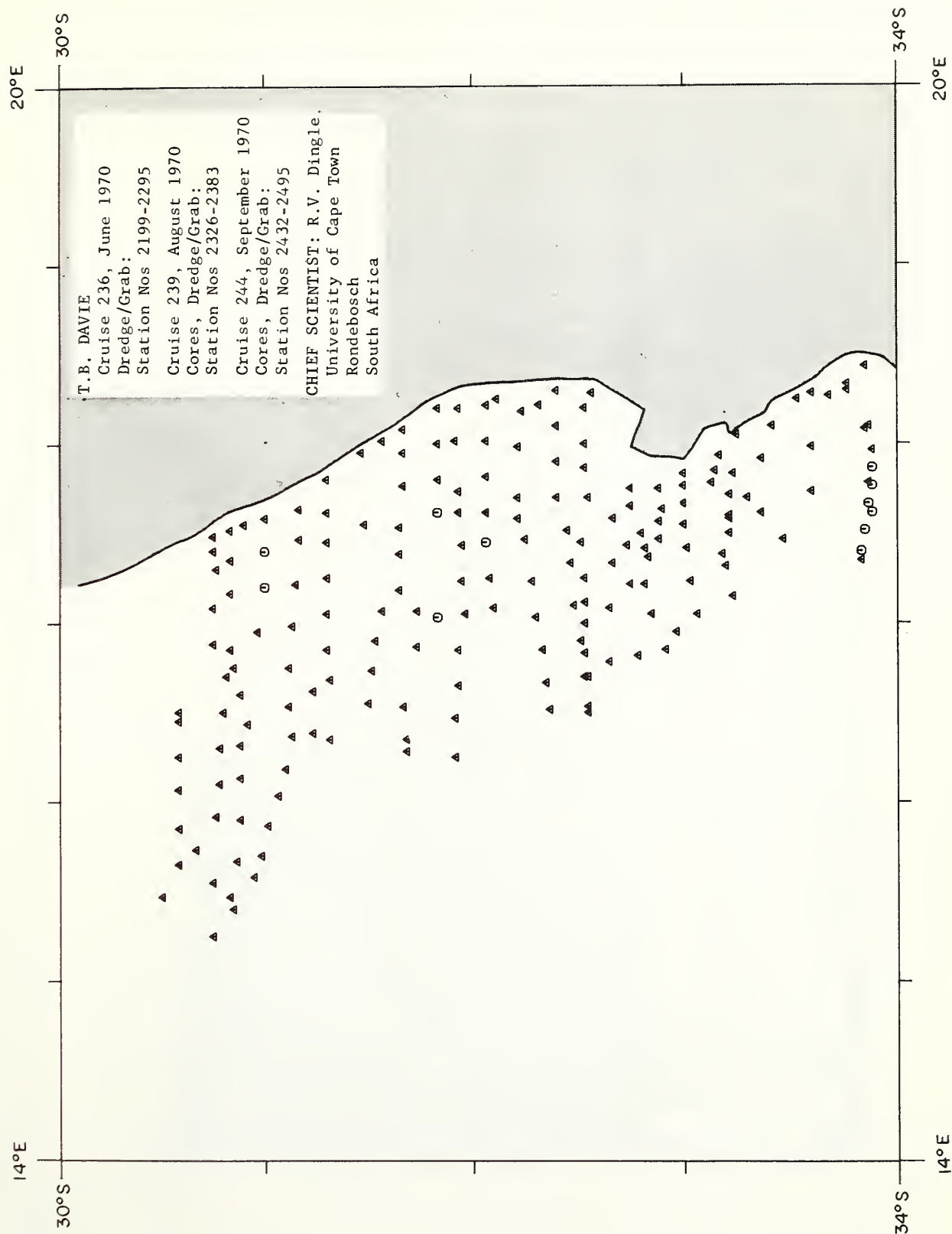




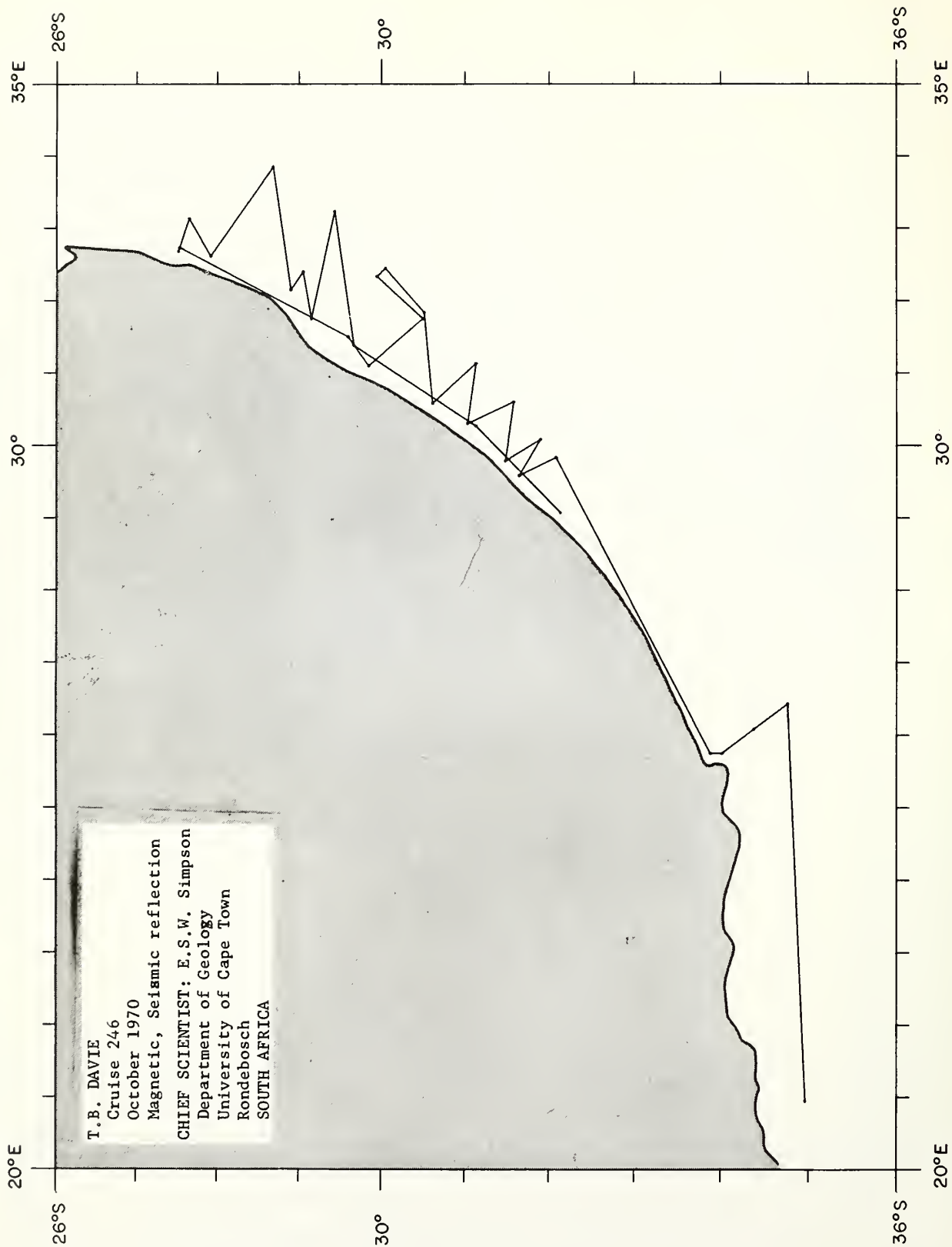


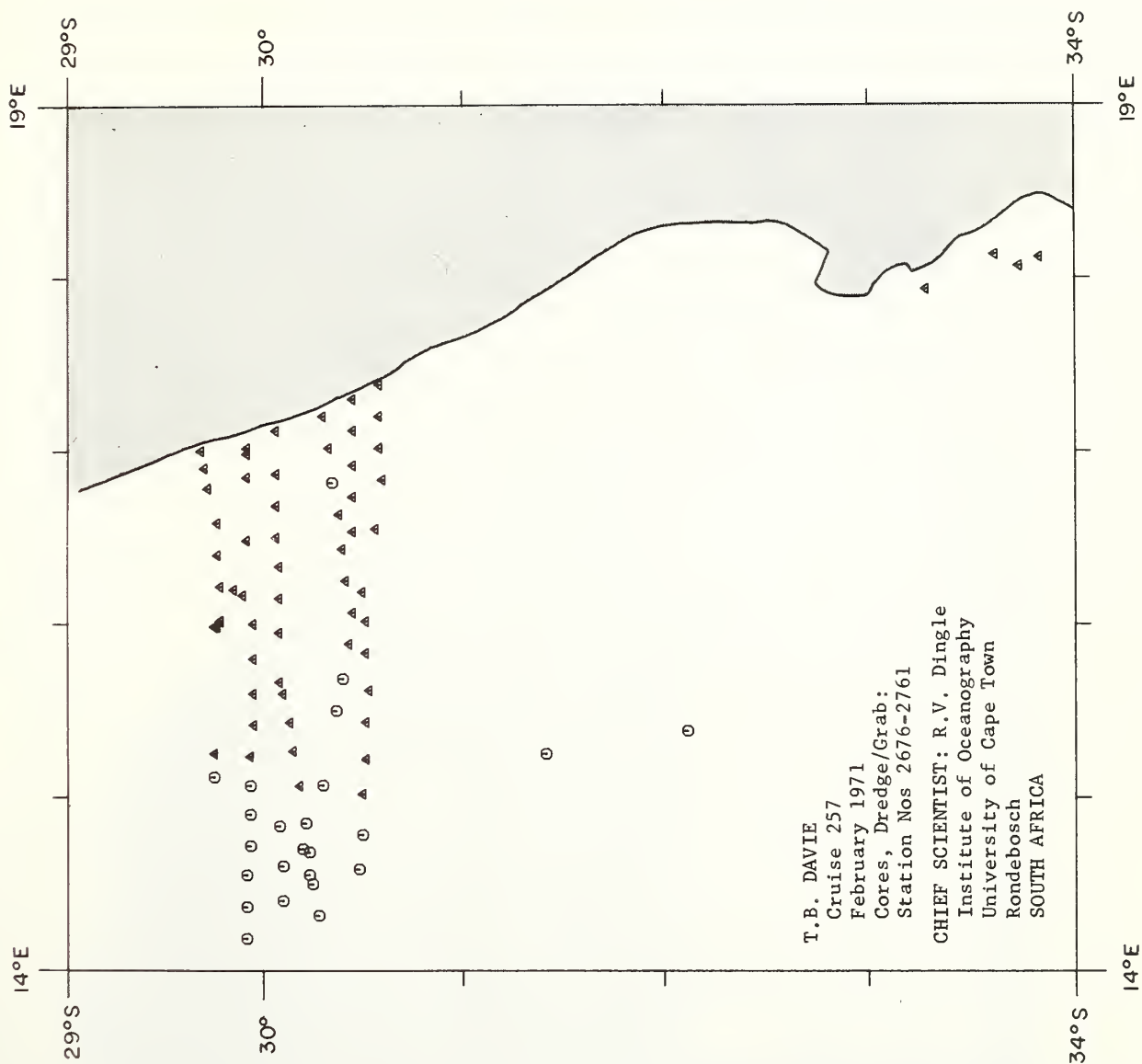
Plot No. 57

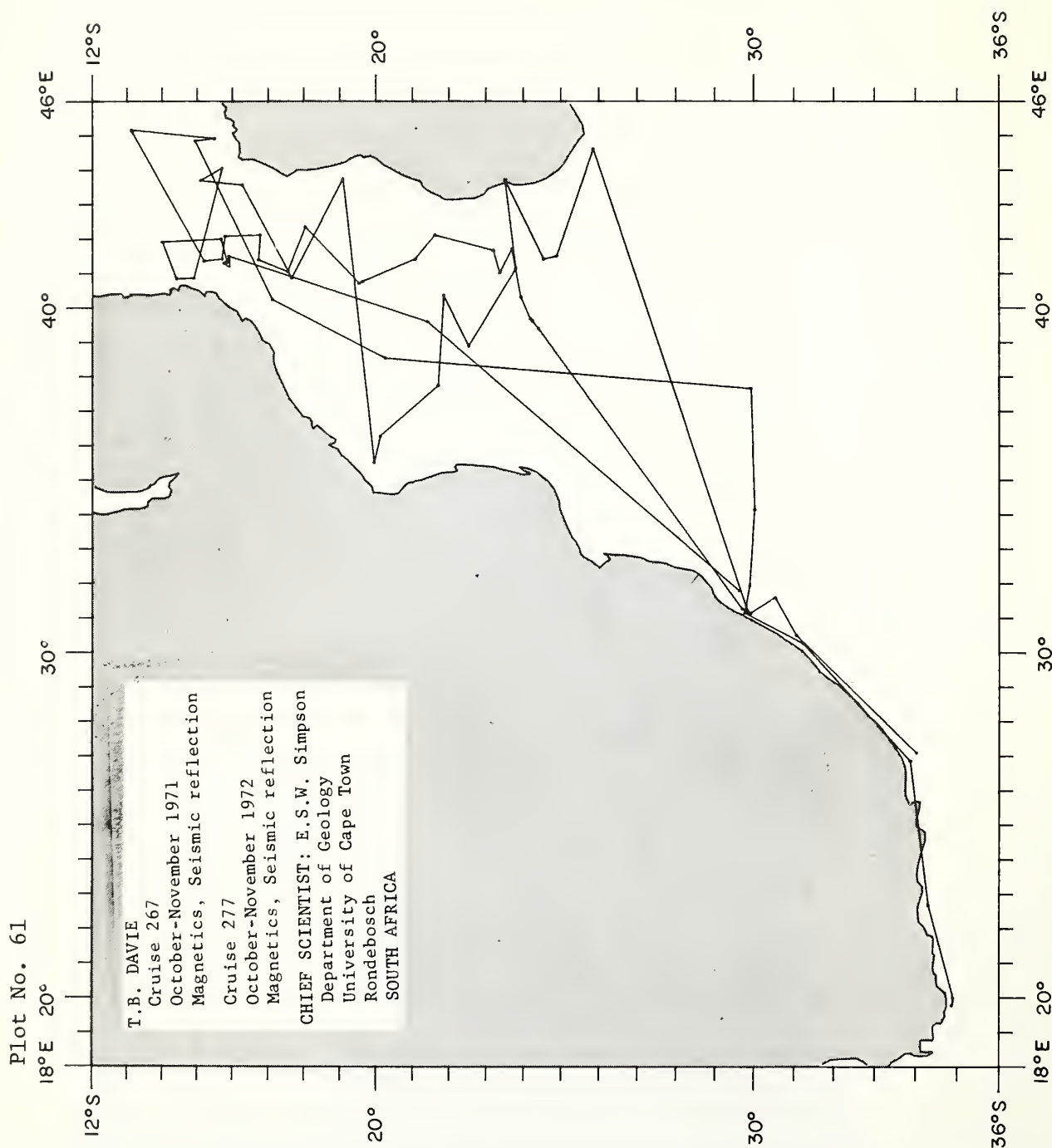




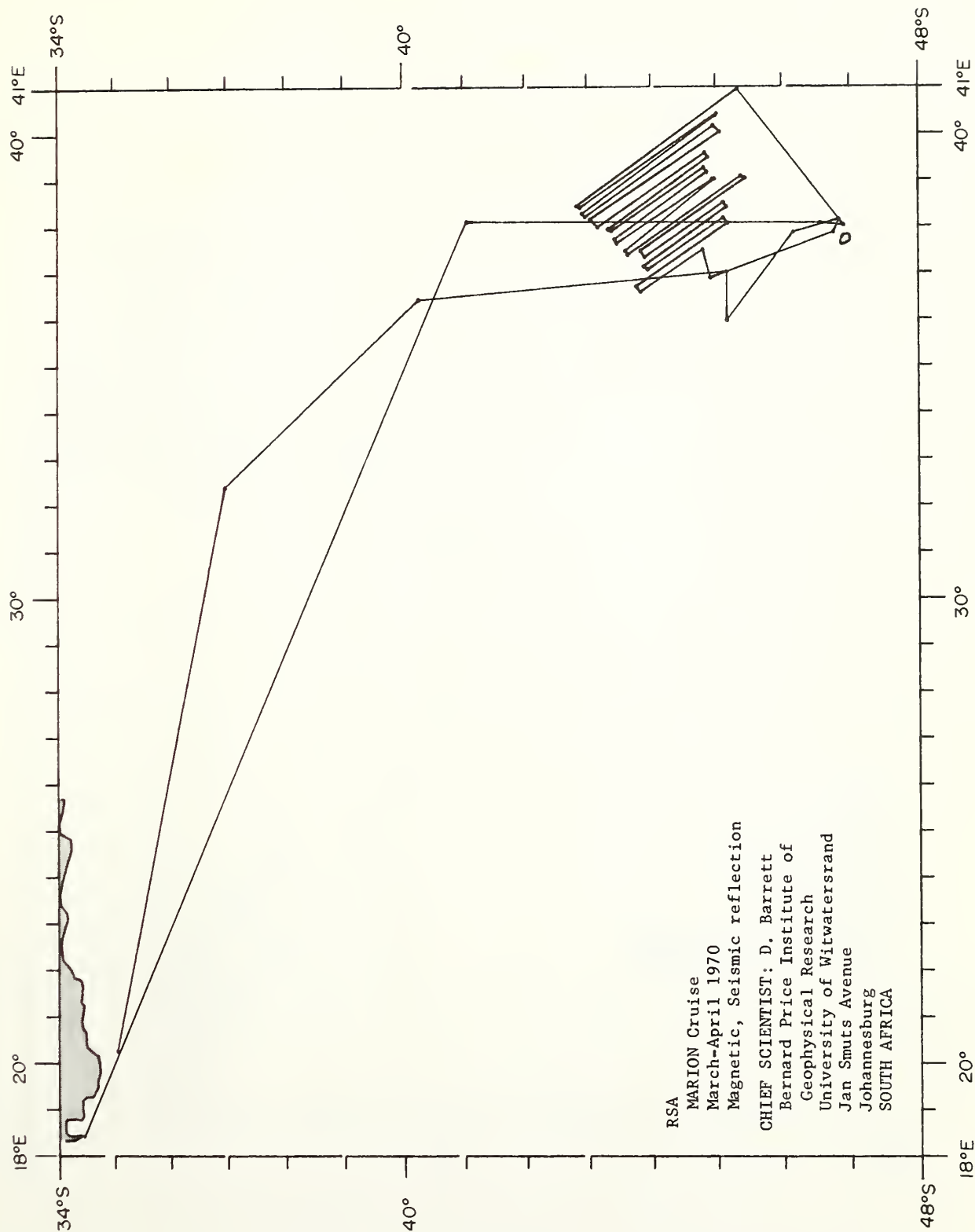
Plot No. 59



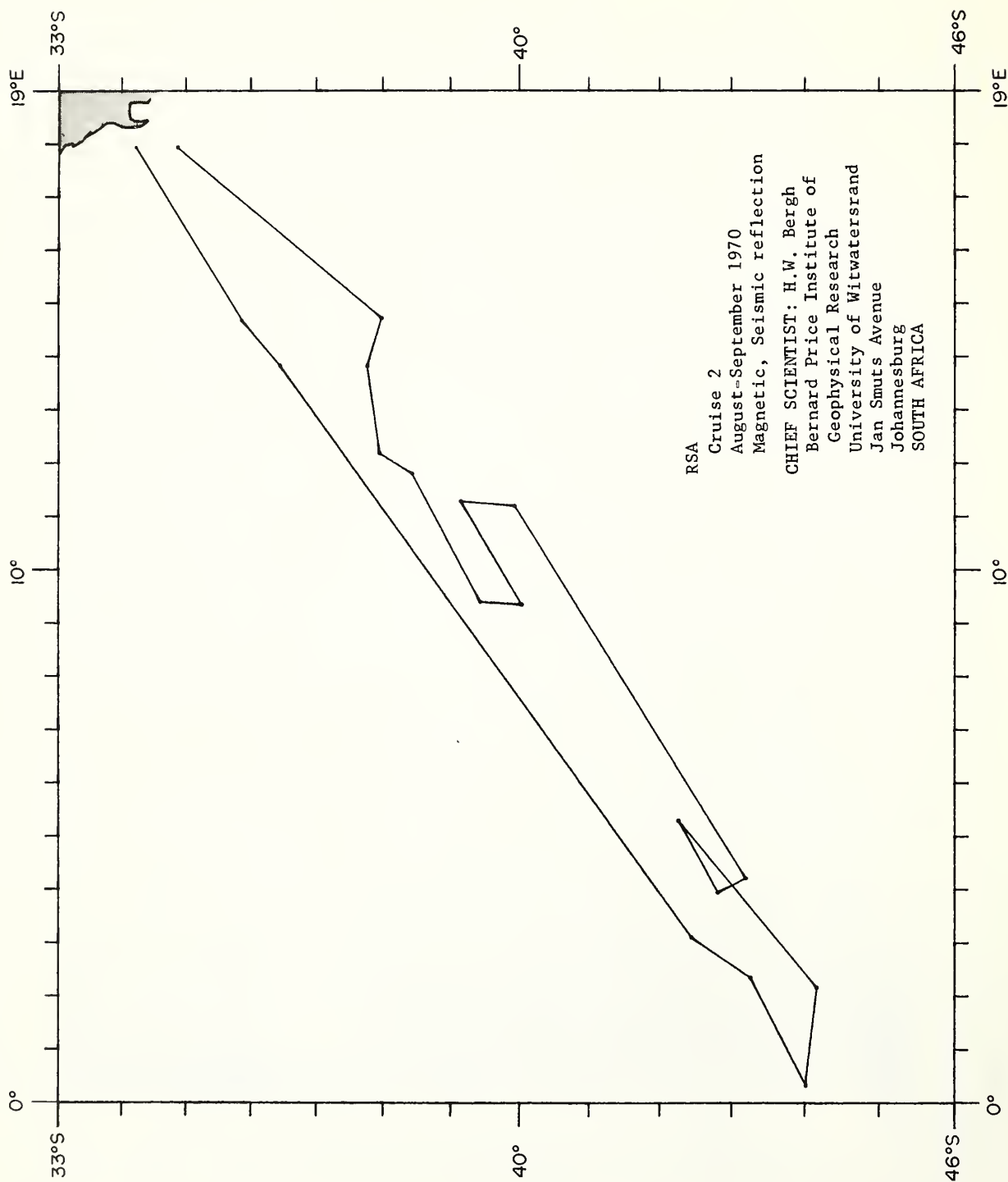




Plot No. 62

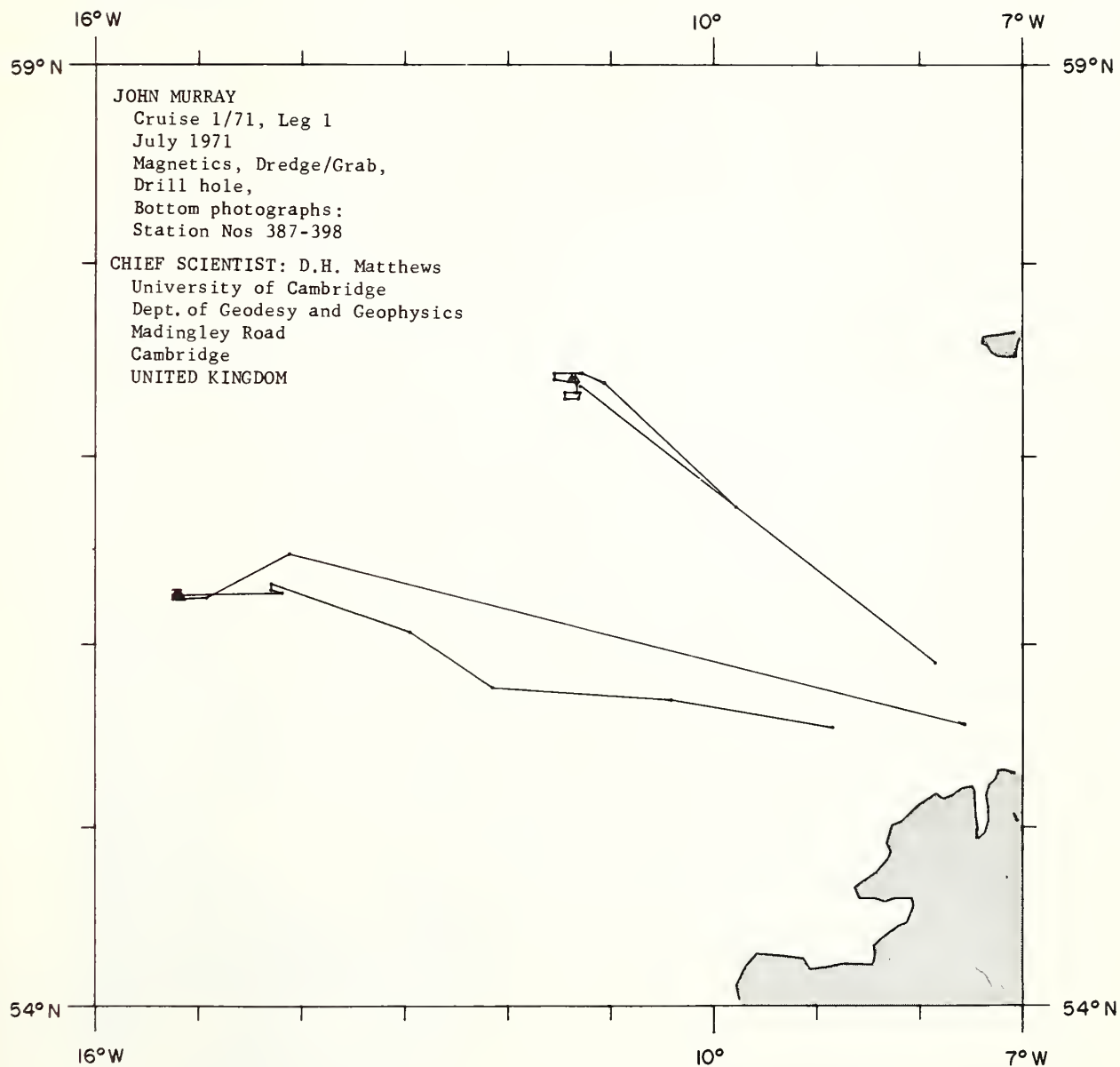


RSA  
MARION Cruise  
March-April 1970  
Magnetic, Seismic reflection  
CHIEF SCIENTIST: D. Barrett  
Bernard Price Institute of  
Geophysical Research  
University of Witwatersrand  
Jan Smuts Avenue  
Johannesburg  
SOUTH AFRICA

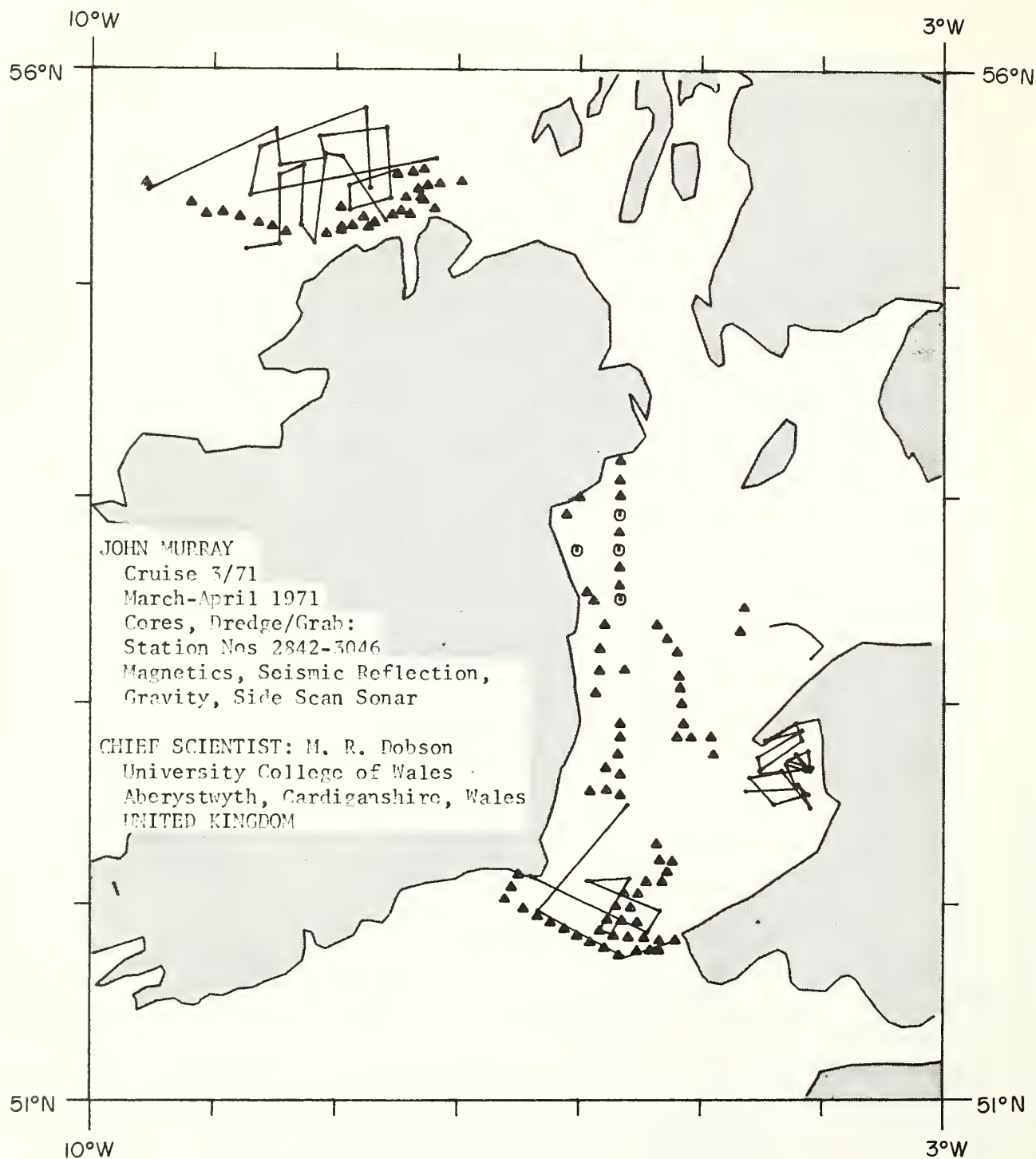




Plot No. 64



Plot No. 65



6°W

0°

1° E

62°N

62° N

Cruise 6, Leg 2

May 1972

Side scan sonar;

Dredge/Grab,  
Bottom photographs:

Station Nos 1-141

CHIEF SCIENTIST: J.B. Wilson

National Institute of Oceanography

Wormley, Godalming, Surrey

UNITED KINGDOM

60°

60°

58° N

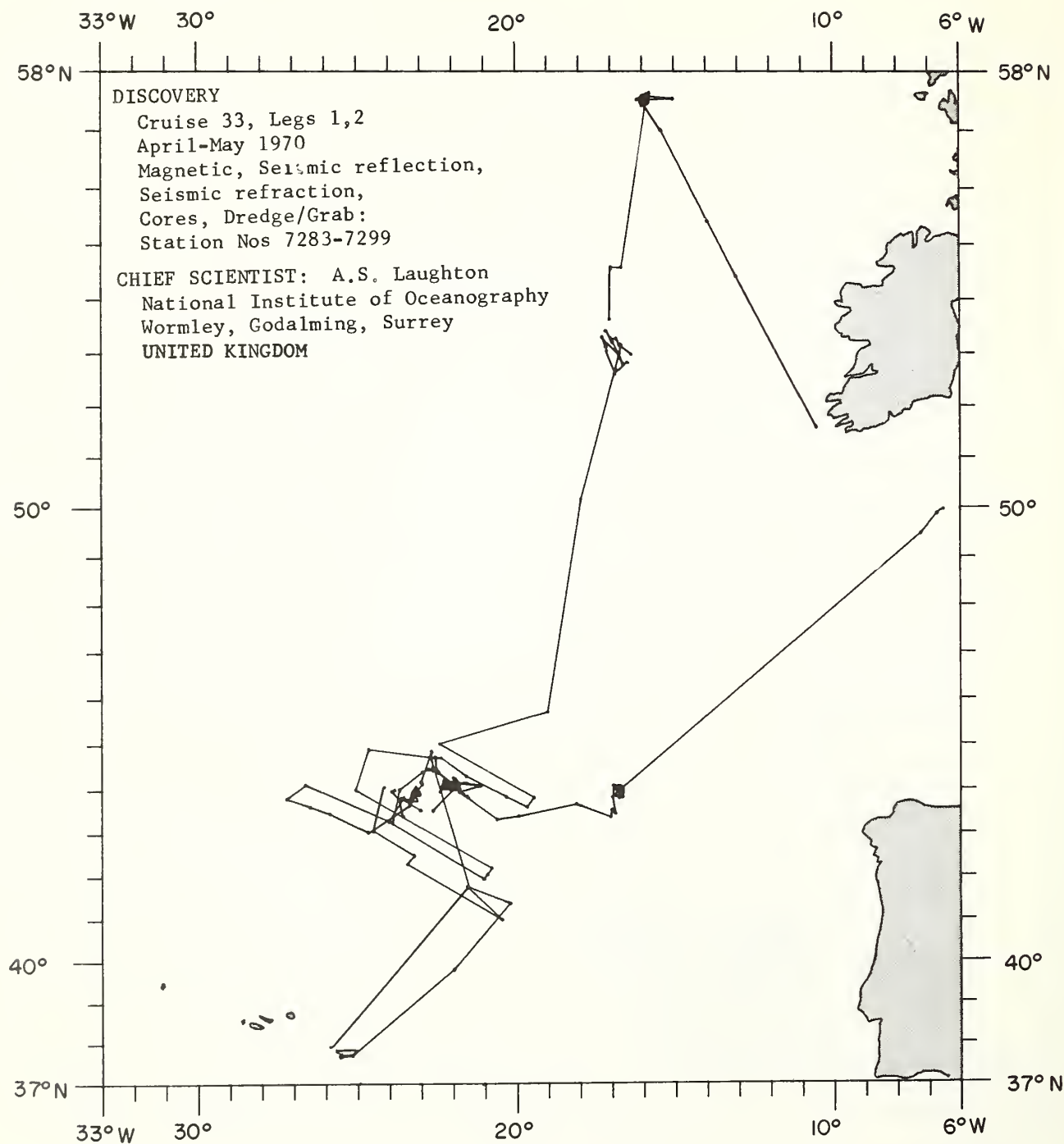
58°N

6° W

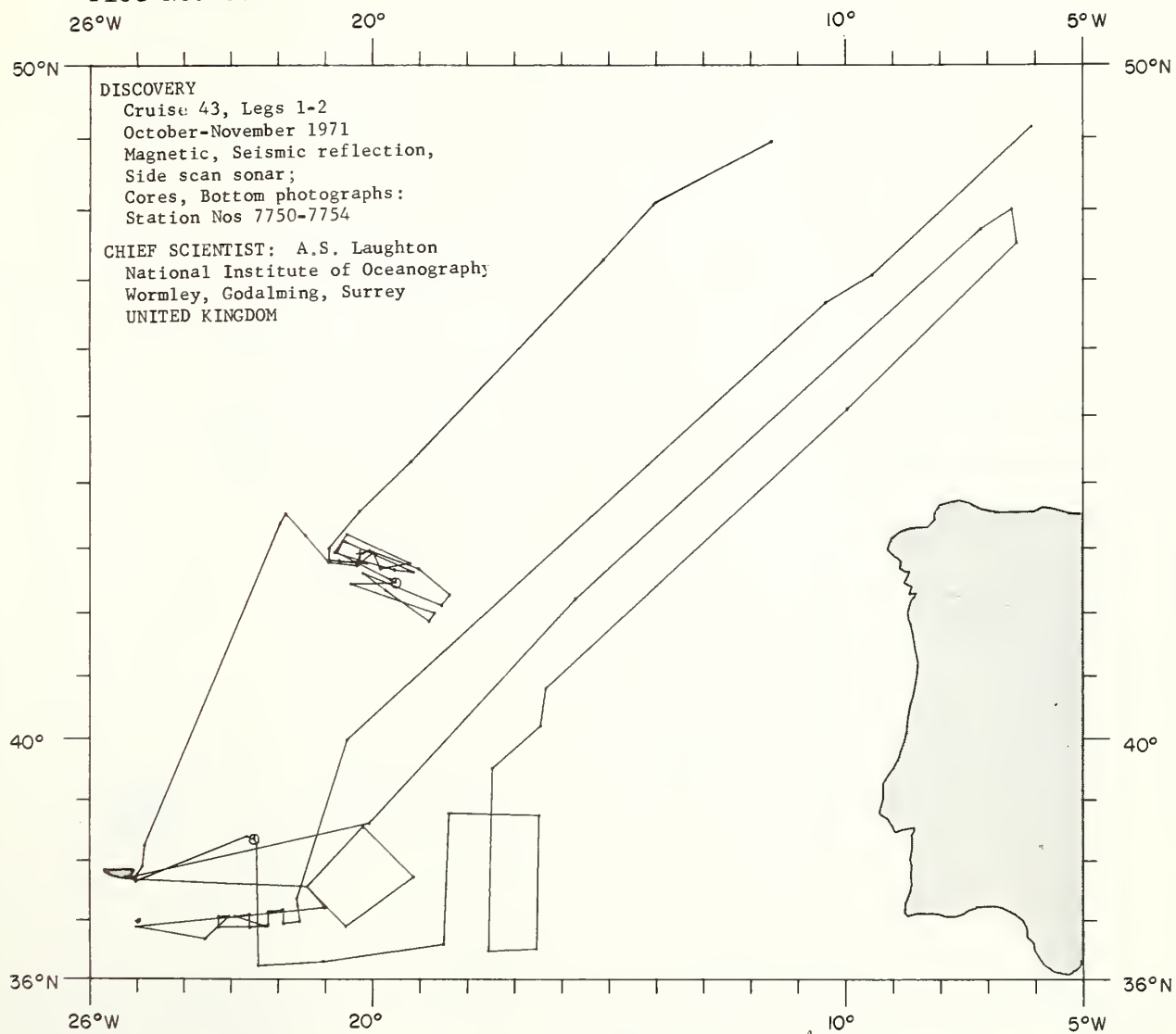
0°

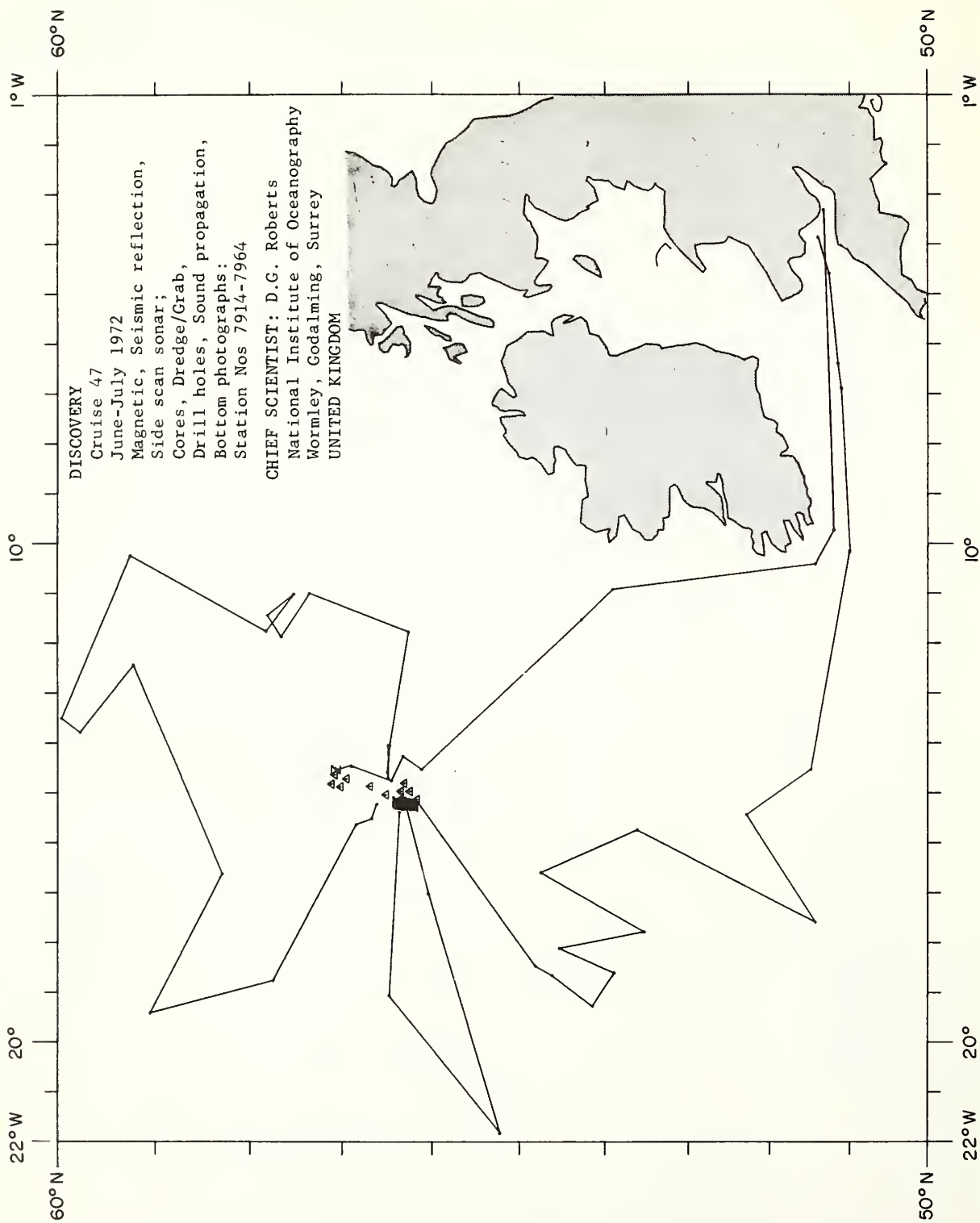
1° E

Plot No. 67

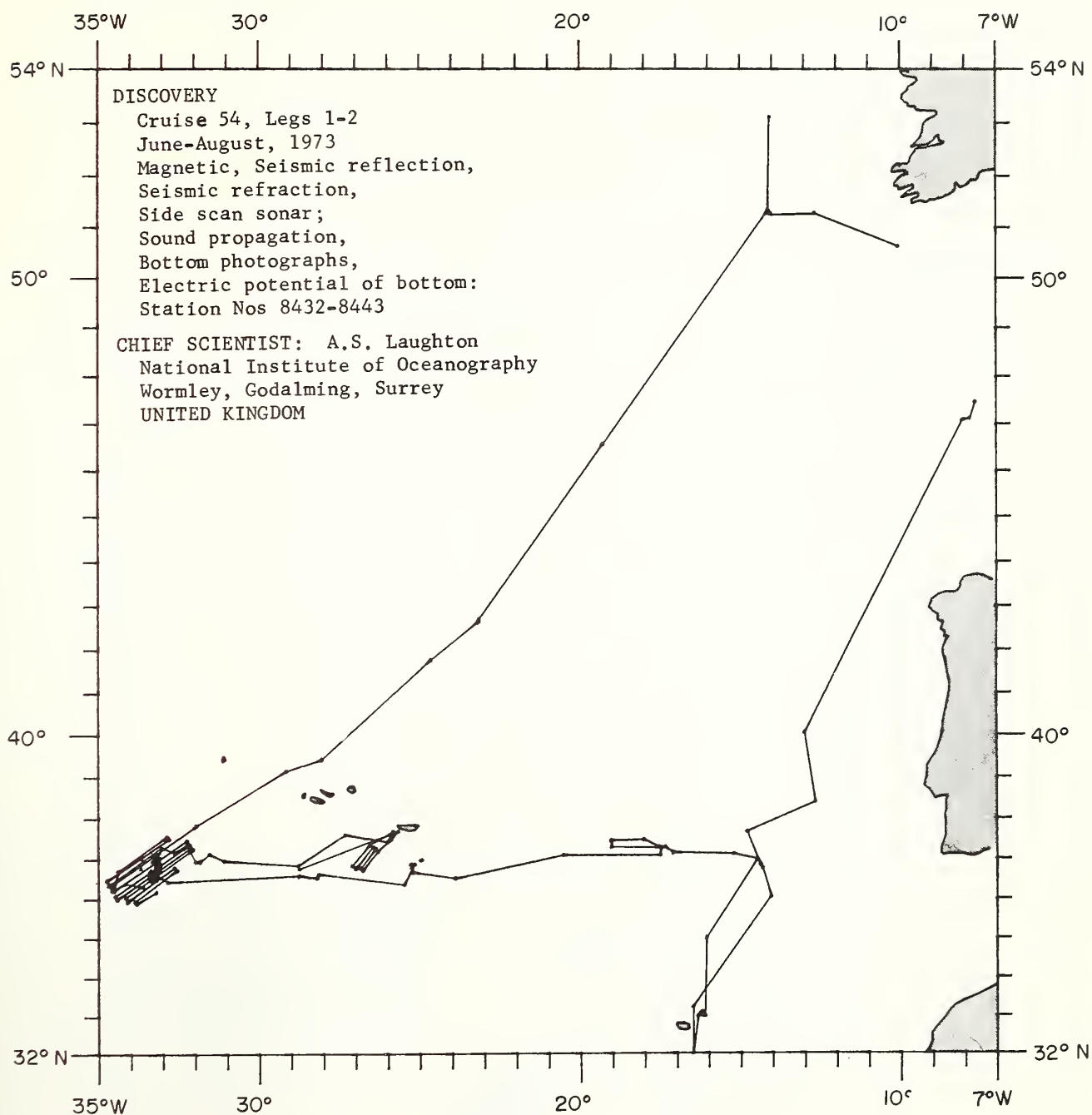


# Plot No. 68



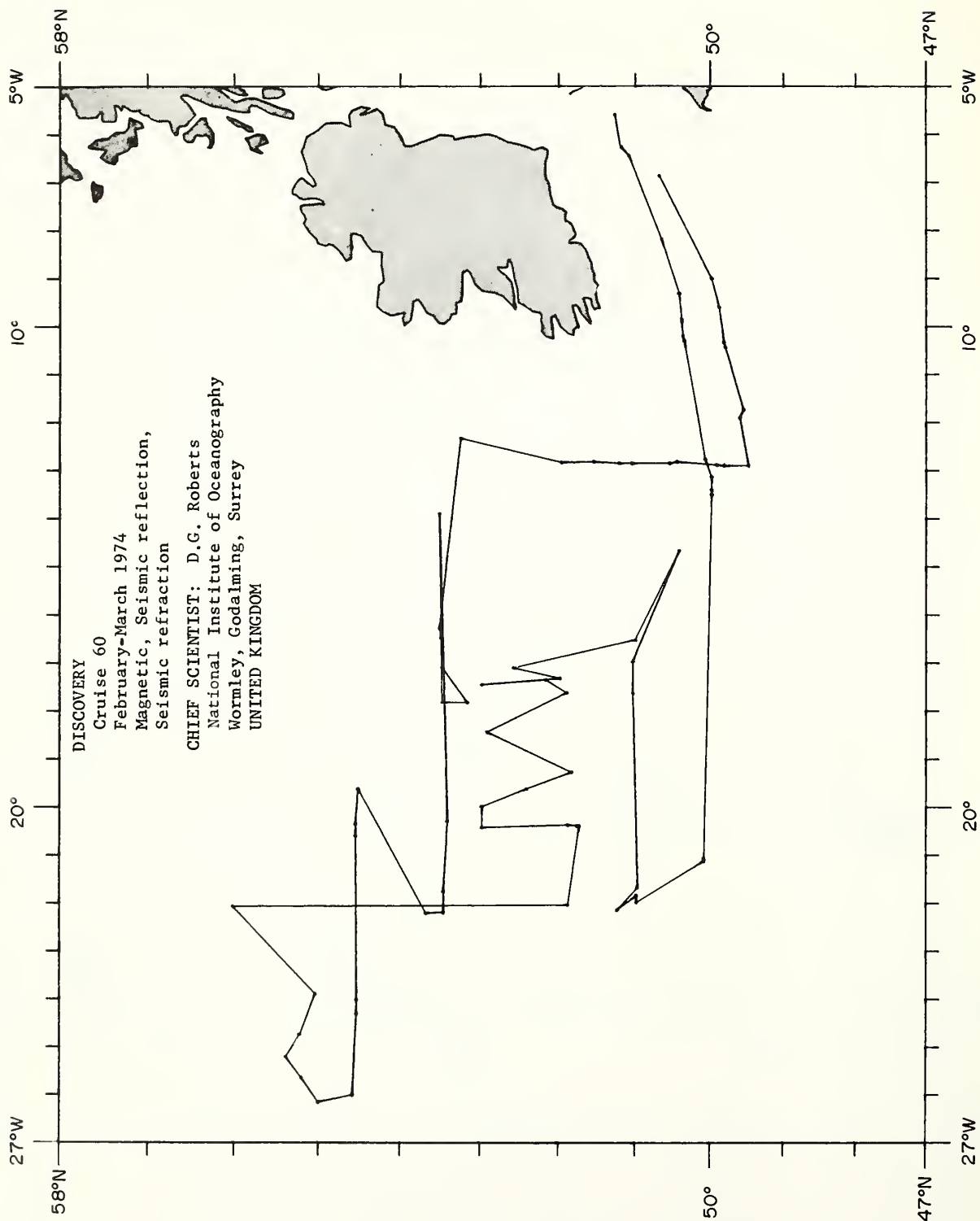


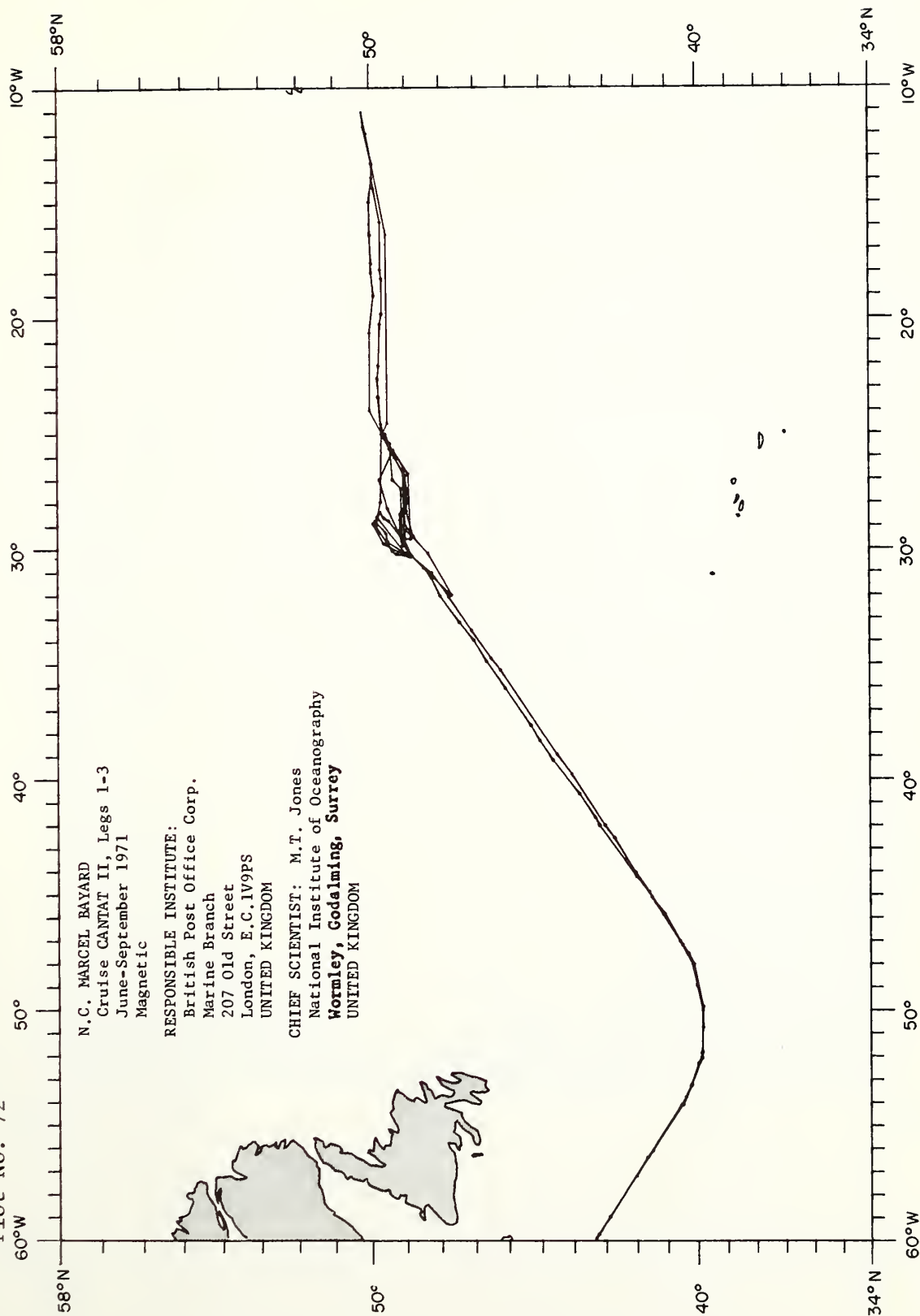
Plot No. 70



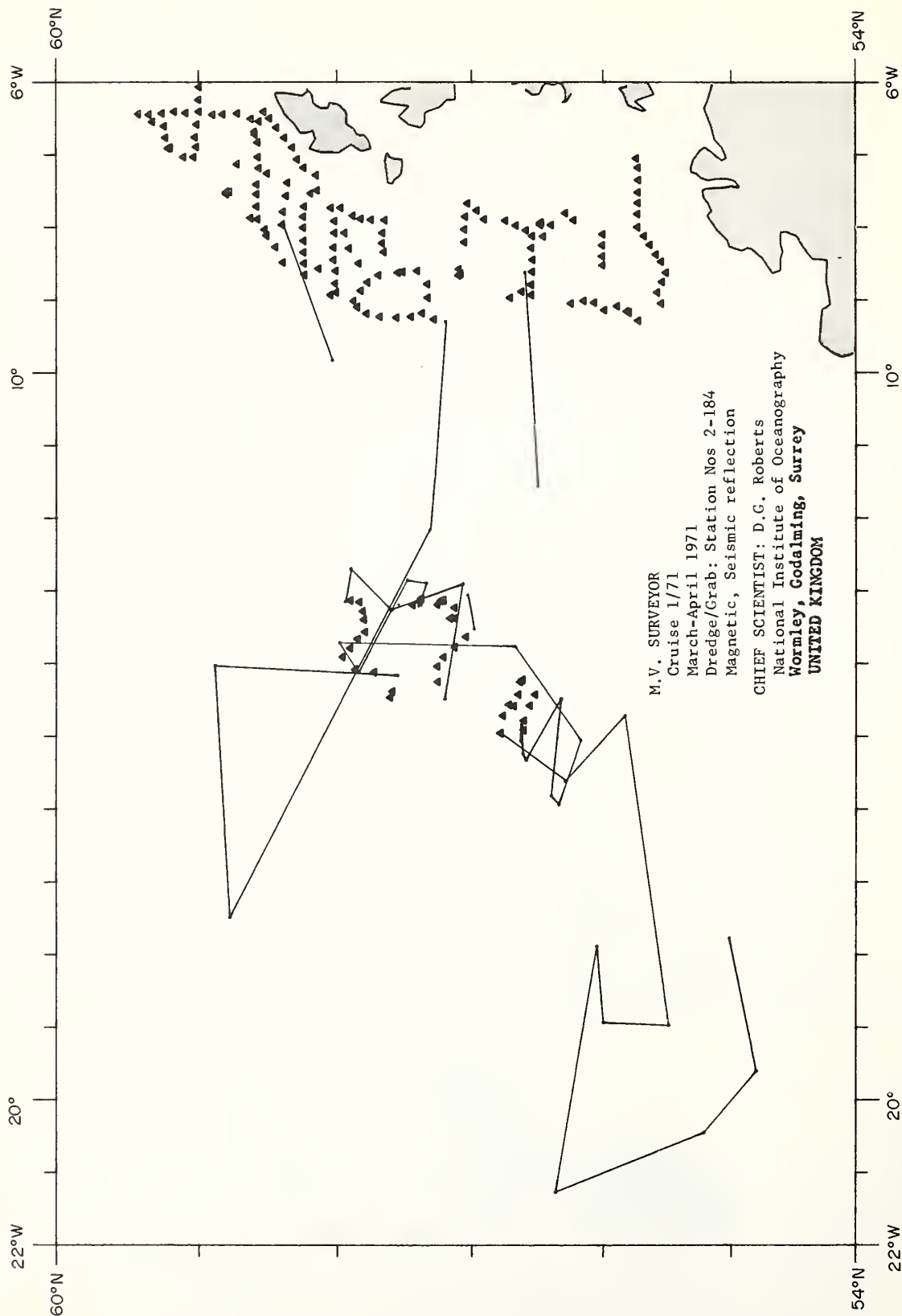


Plot No. 71

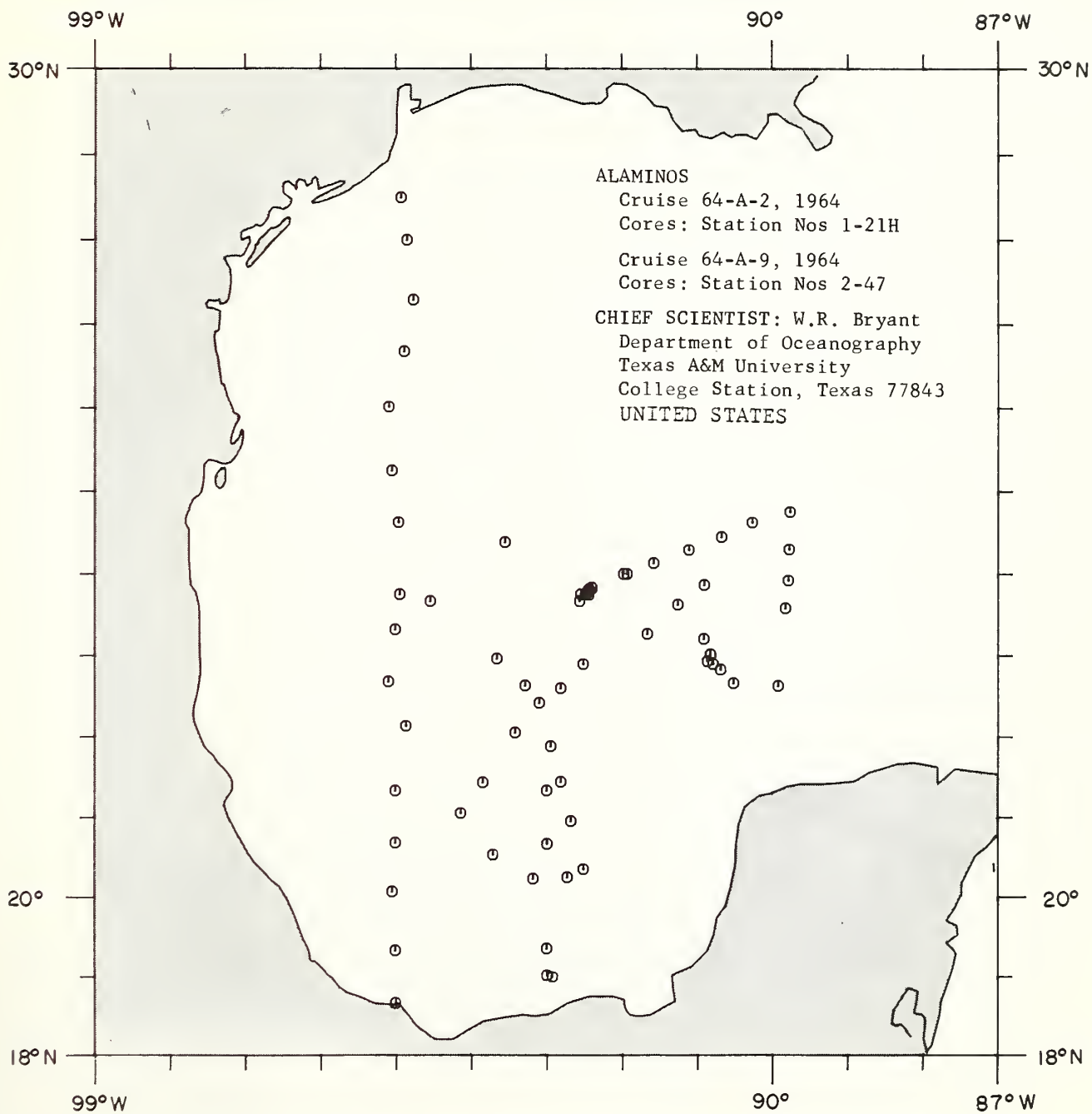




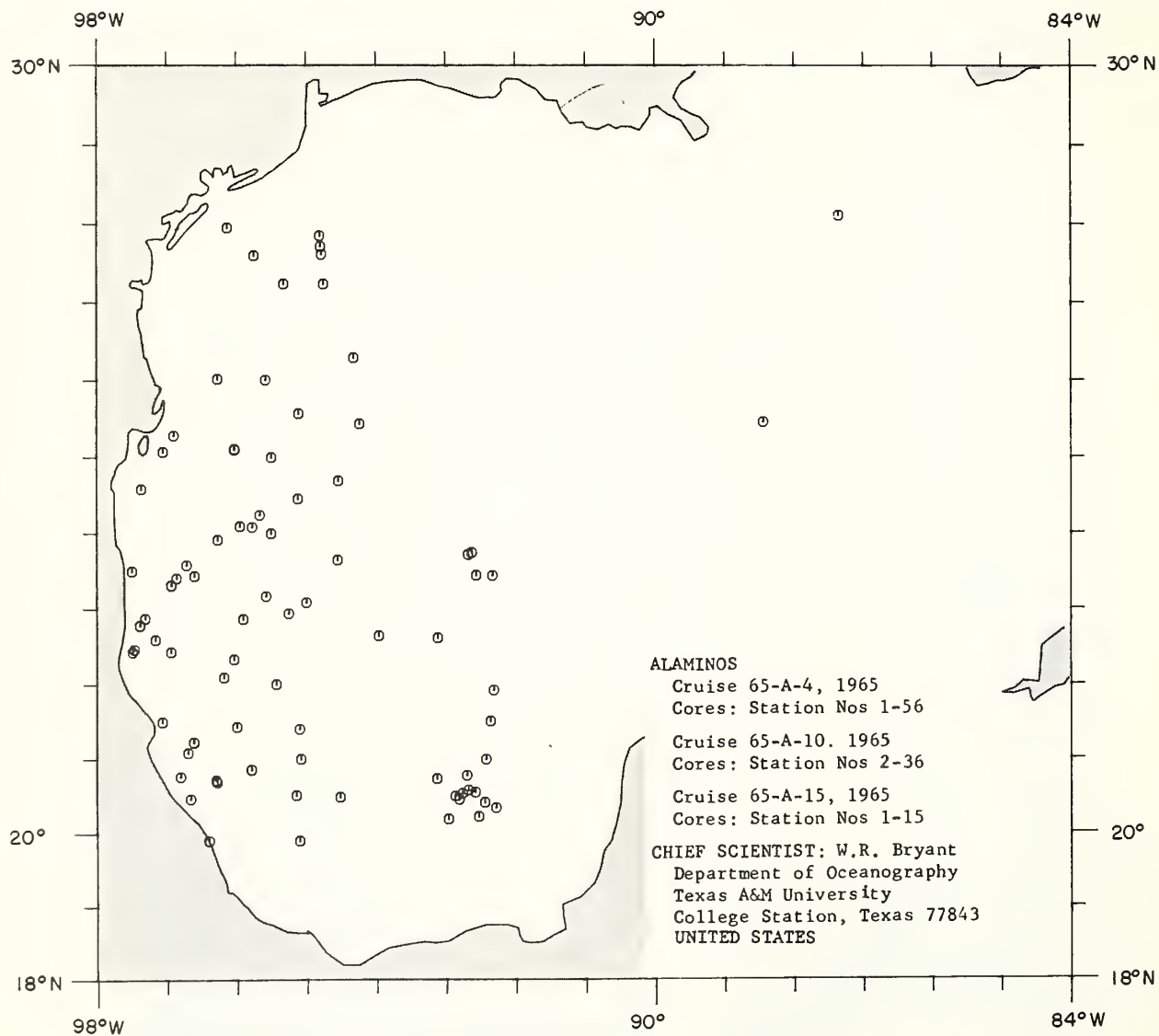
Plot No. 73



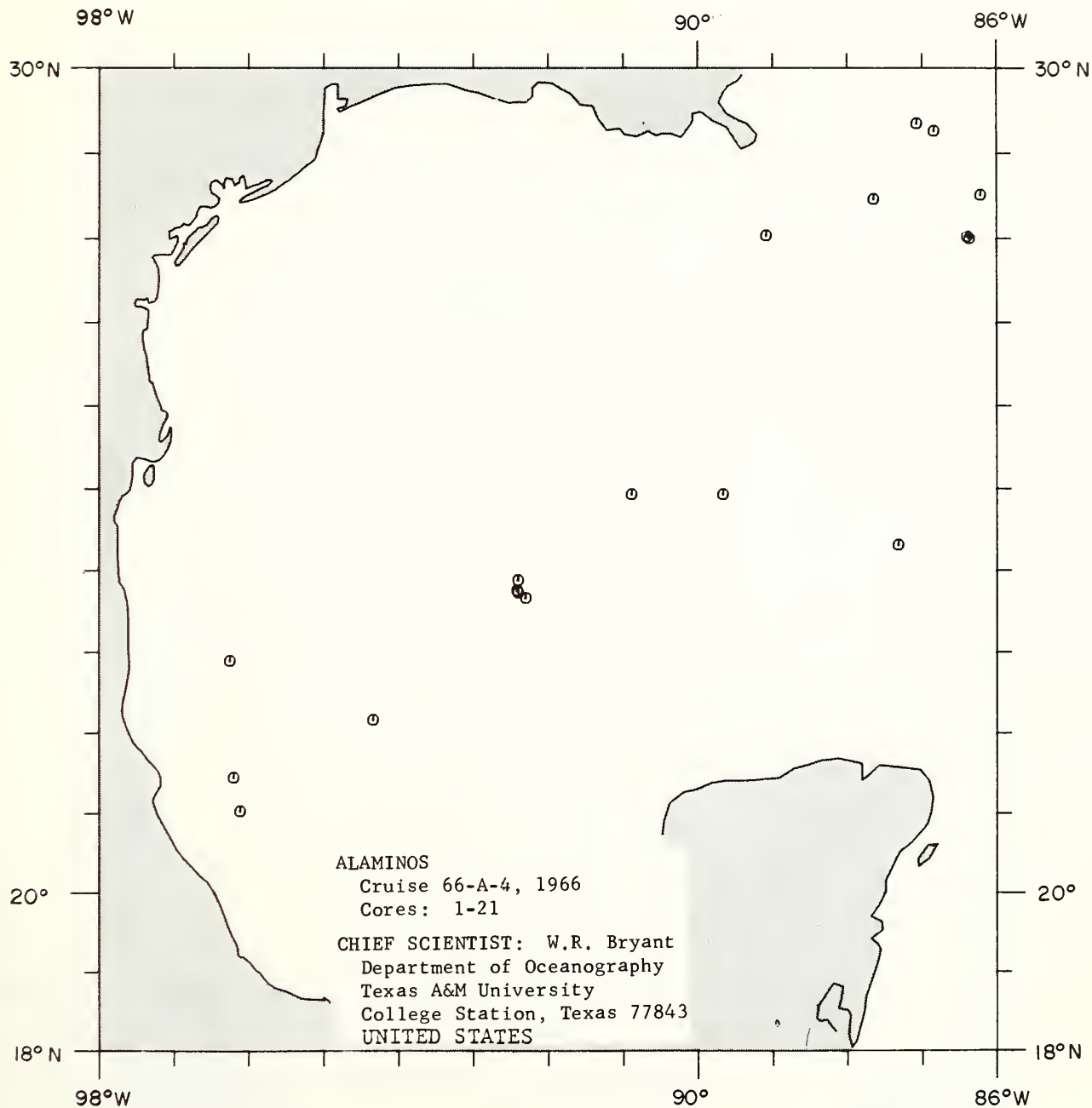
Plot No. 74



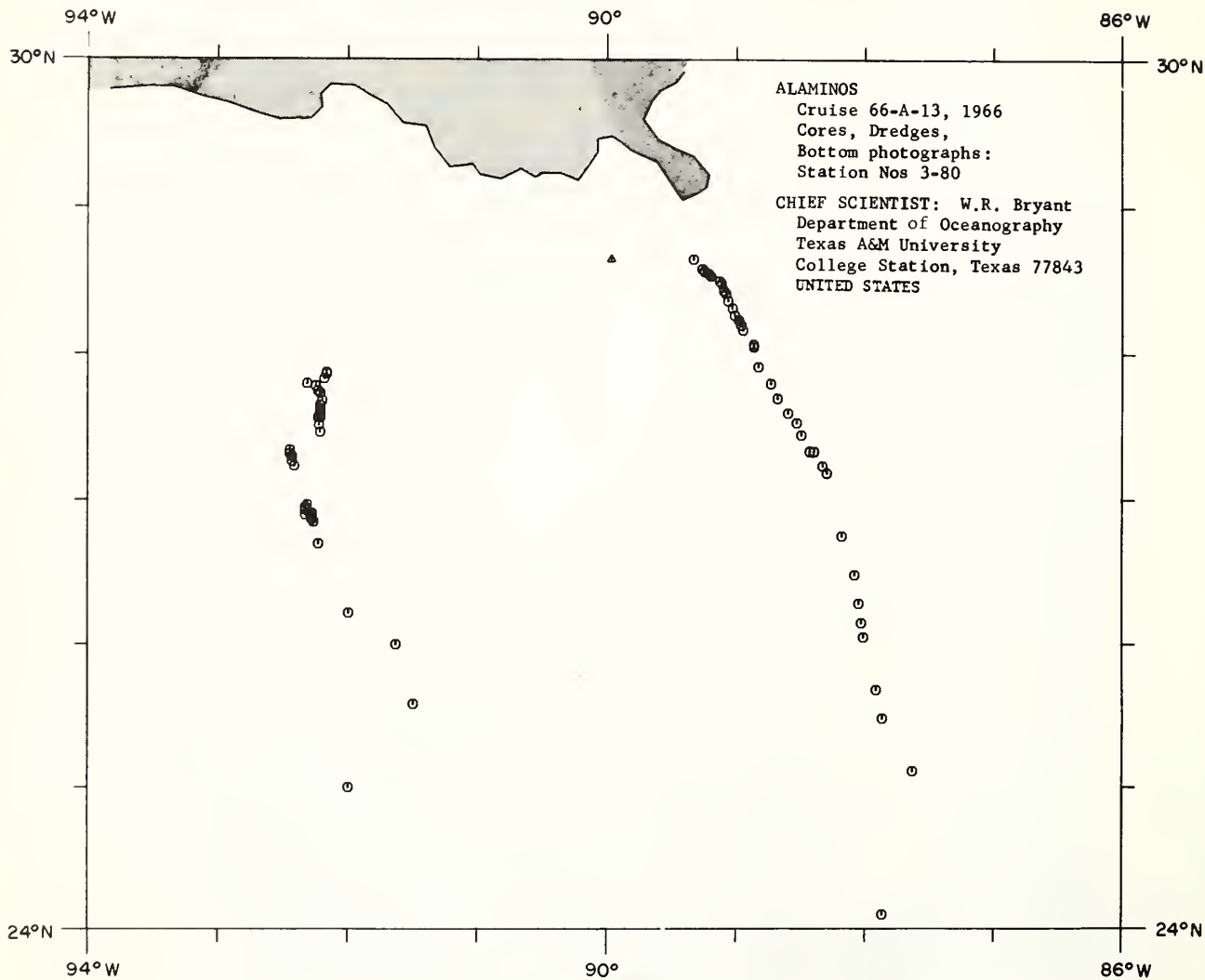
Plot No. 75



Plot No. 76

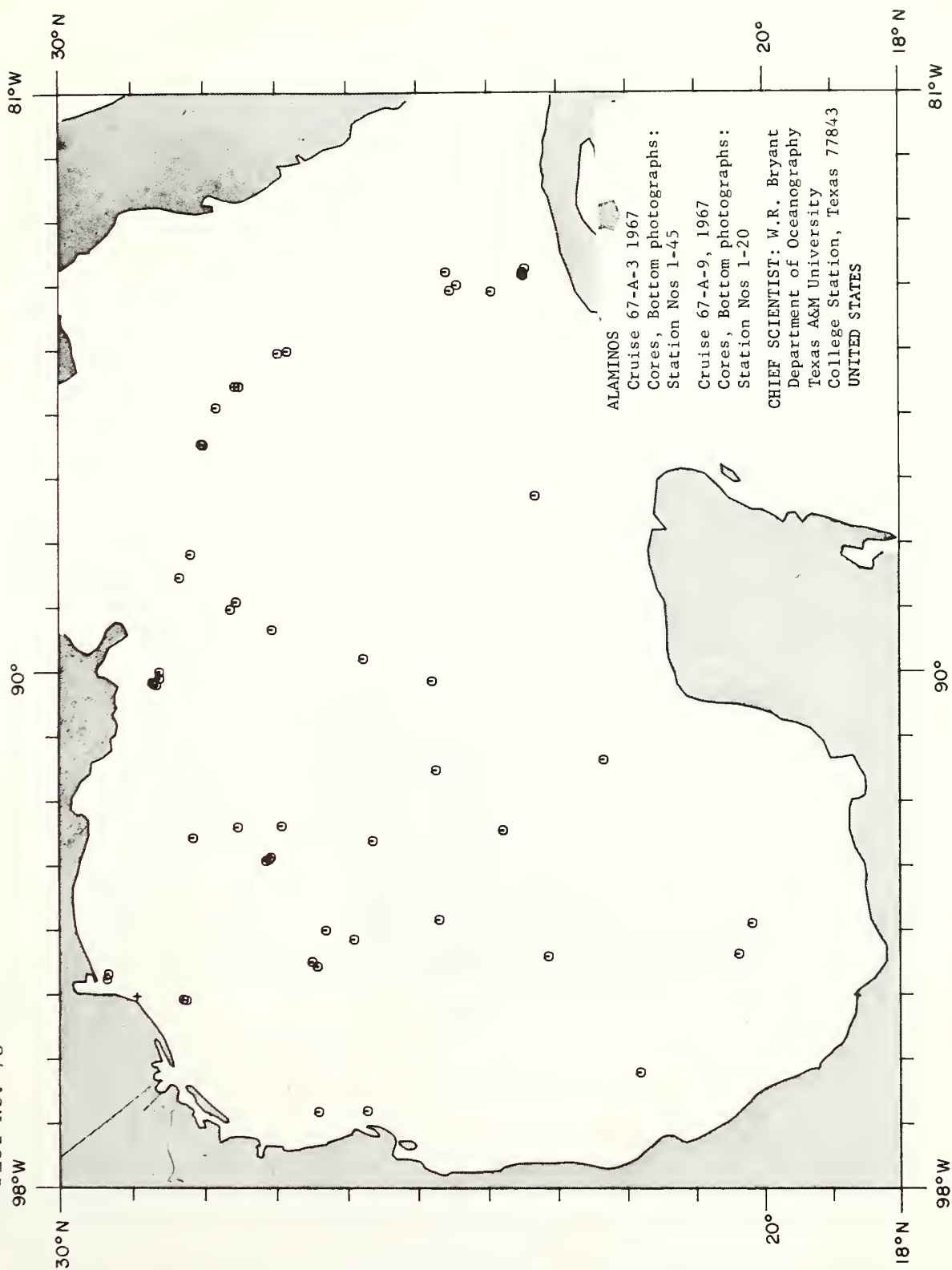


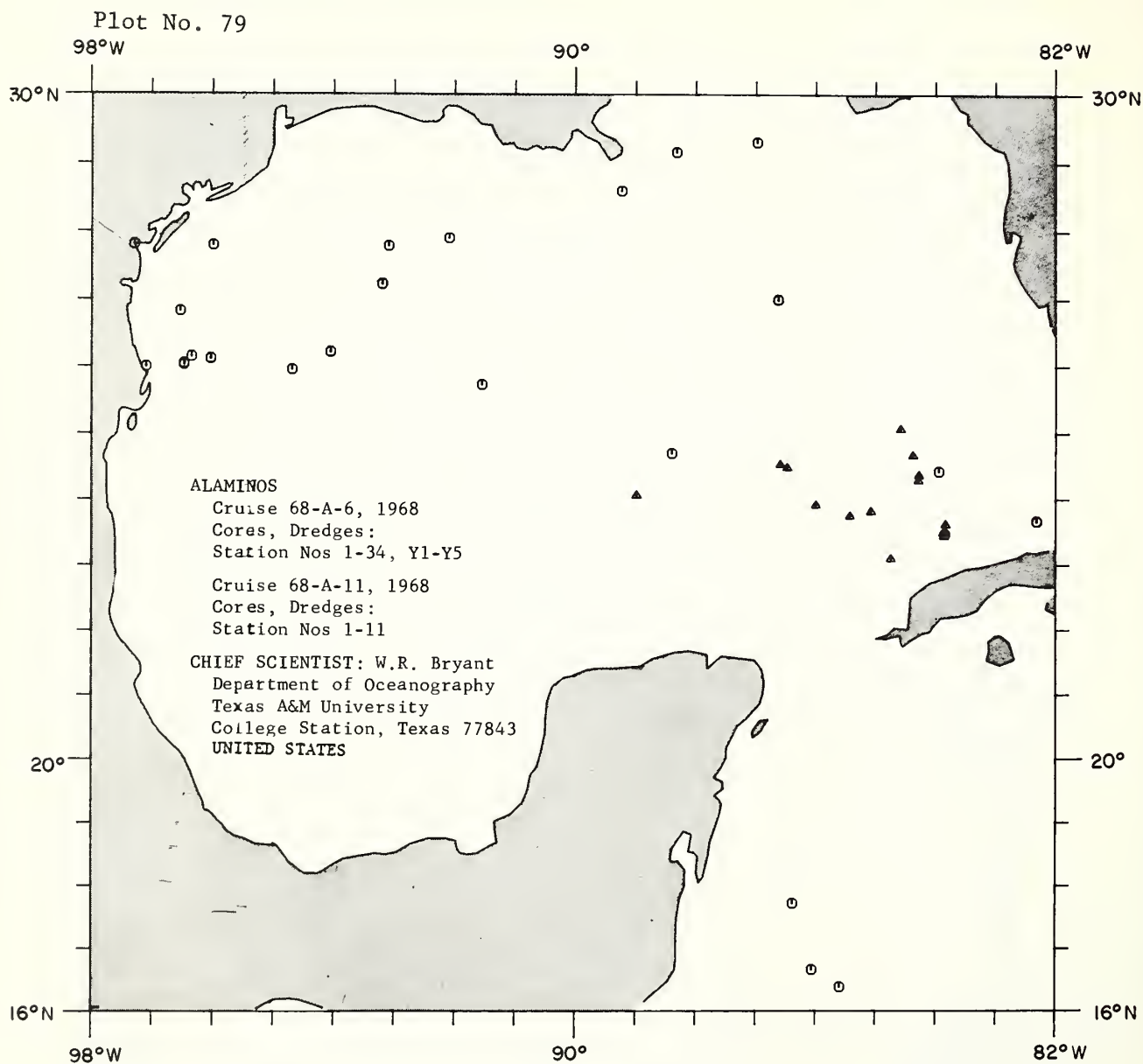
Plot No. 77





Plot No. 78





Plot No. 80

93°W

30°N

90°

88°W

30°N

27°N

93°W

90°

88°W

27°N

ALAMINOS

Cruise 68-A-14, 1968

Cores, Dredges:

Station Nos 1-59

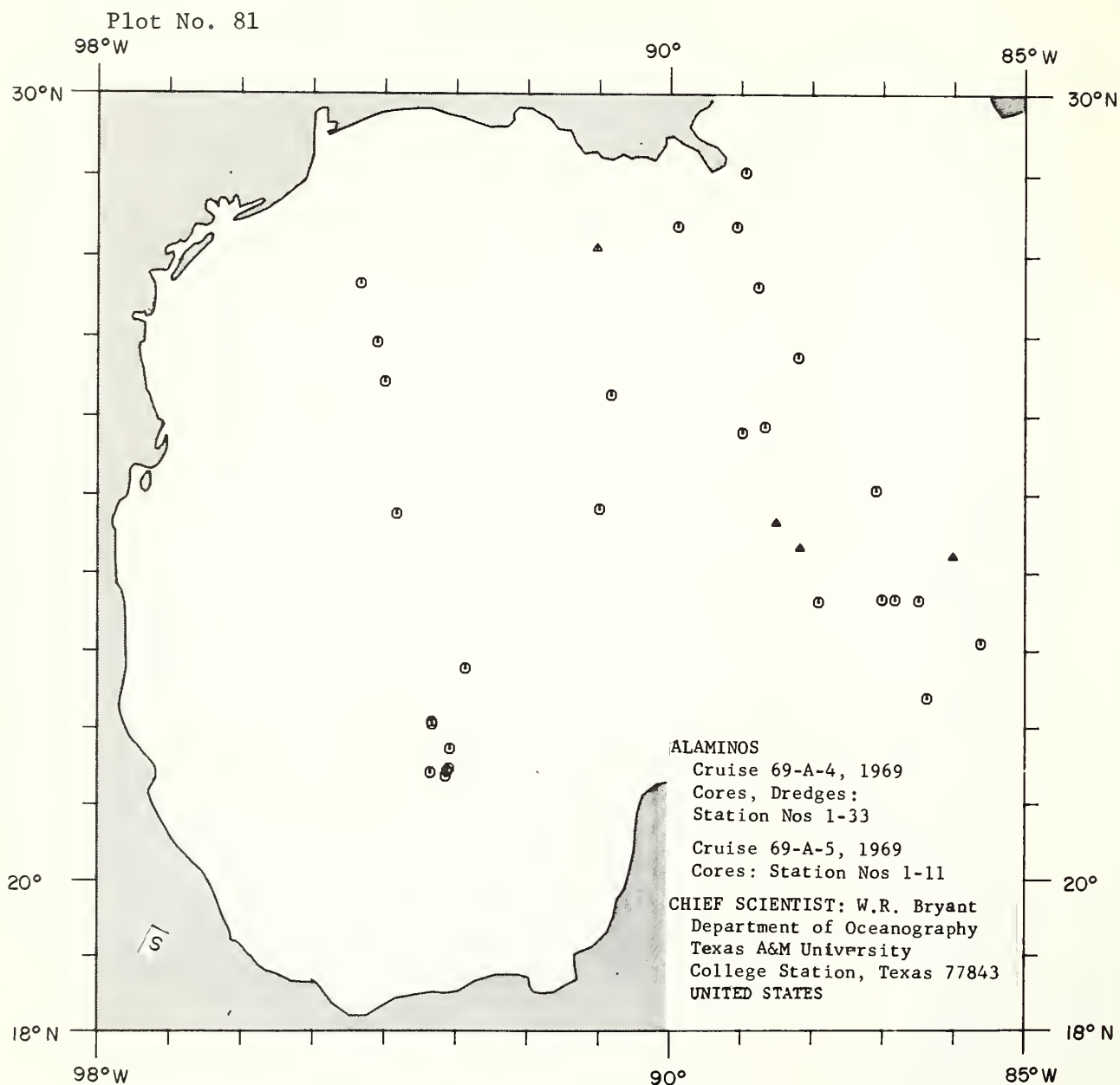
CHIEF SCIENTIST: W.R. Bryant

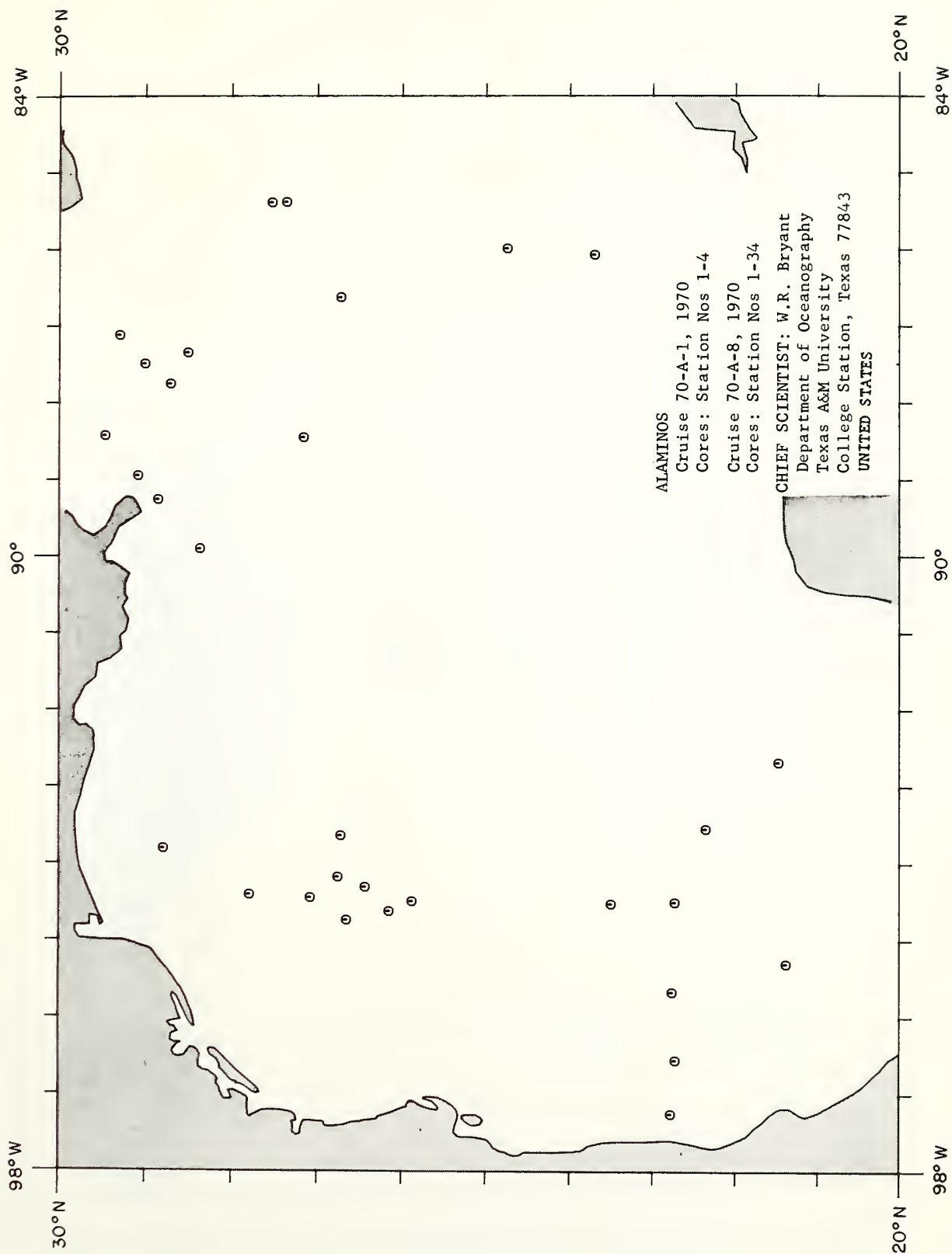
Department of Oceanography

Texas A&M University

College Station, Texas 77843

UNITED STATES





Plot No. 83

95°W

93°W

29°N

29°N

ALAMINOS

Cruise 70-A-12, 1970

Cores Dredges:

Station Nos 7-46

Cruise 70-A-13, 1970

Cores, Dredges:

Station Nos 1A-43

CHIEF SCIENTIST: W.R. Bryant

Department of Oceanography

College Station, Texas 77843

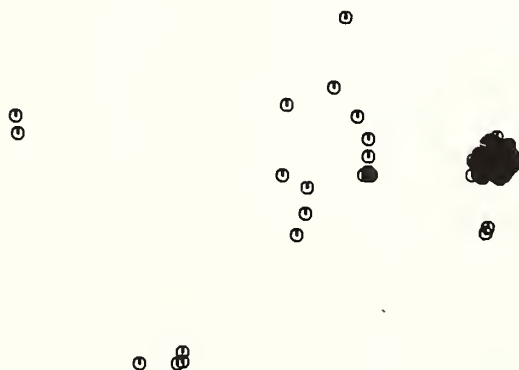
UNITED STATES

27°N

27°N

95°W

93°W



Plot No. 84

93°W

30°N

90°

88°W

30°N

27°N

93°W

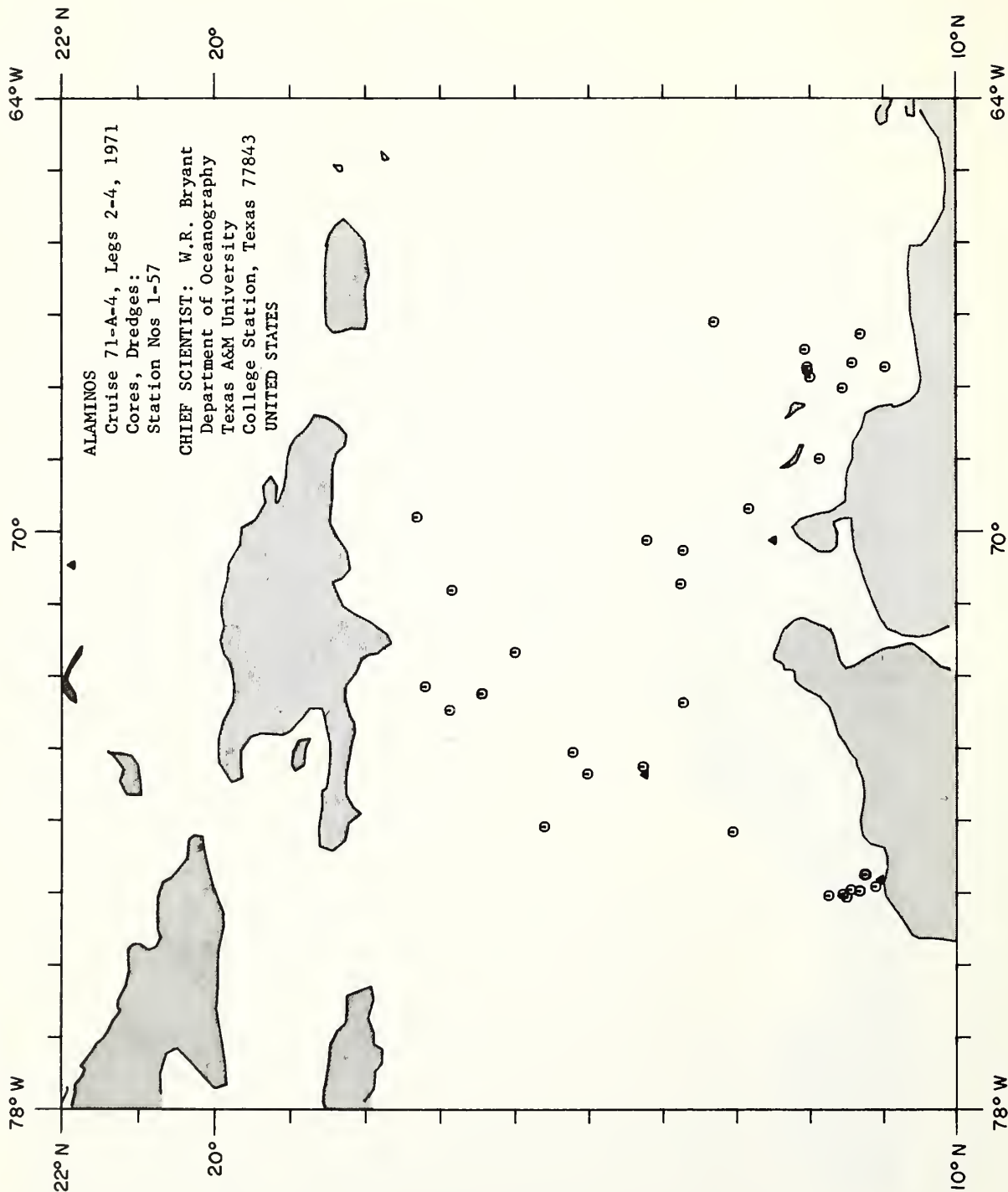
90°

88°W

27°N

ALAMINOS  
Cruise 70-A-15, 1970  
Cores: Station Nos 2-10  
CHIEF SCIENTIST: W.R. Bryant  
Department of Oceanography  
Texas A&M University  
College Station, Texas 77843  
UNITED STATES

Plot No. 85





Plot No. 86

94°W

90°

86°W

31°N

30°

30°

31°N

26°N

94°W

90°

86°W

ALAMINOS

Cruise 71-A-13, 1971

Cores, Dredges,

Bottom photographs:

Station Nos 5-20

CHIEF SCIENTIST: W.R. Bryant

Department of Oceanography

Texas A&M University

College Station, Texas 77843

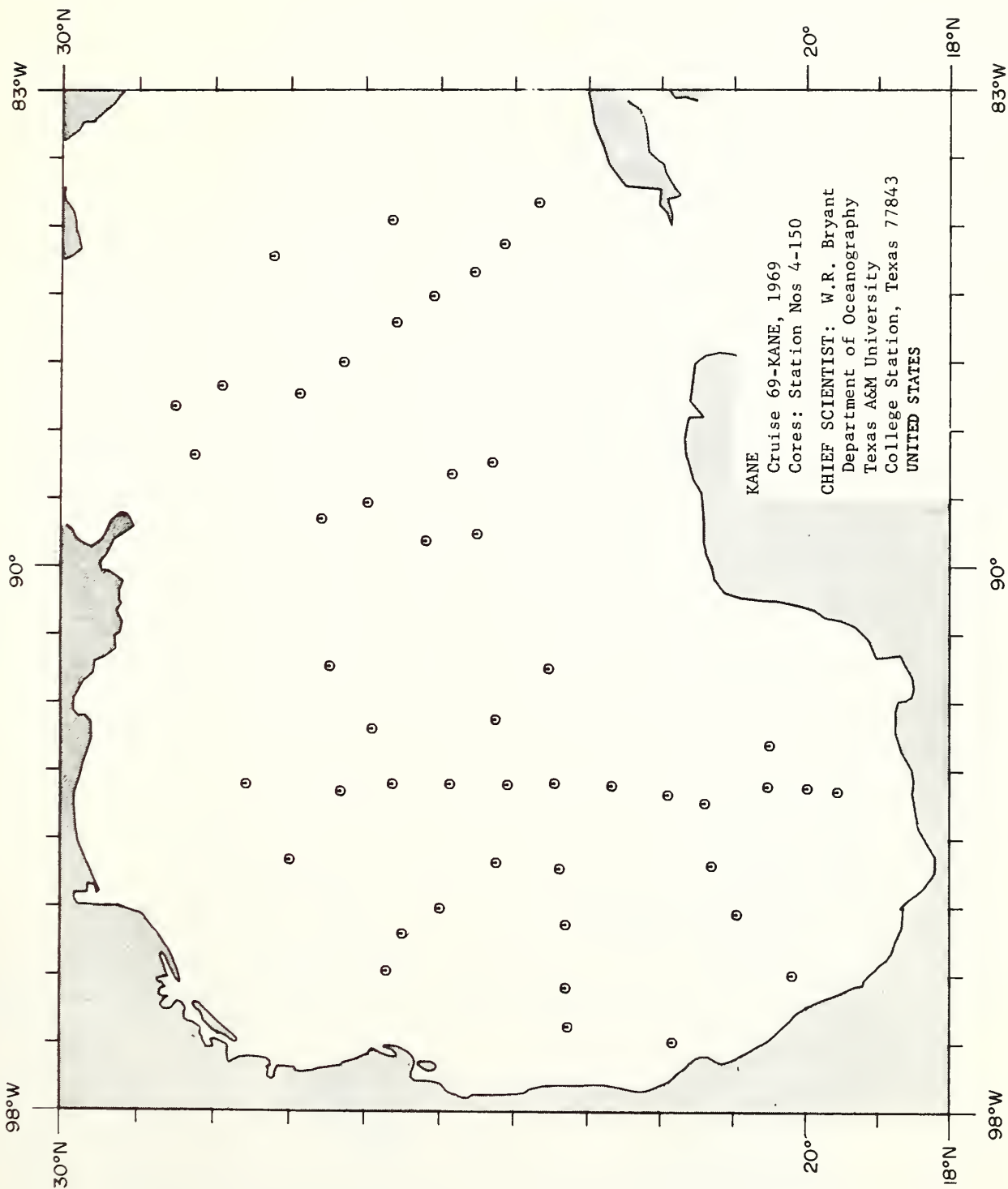
UNITED STATES

ALAMINOS  
Cruise 72-A-5, 1972  
Cores, Dredges:  
Station Nos 1-18

CHIEF SCIENTIST: W.R. Bryant  
Department of Oceanography  
Texas A&M University  
College Station, Texas 77843  
UNITED STATES

ALAMINOS  
Cruise 72-A-5, 1972  
Cores, Dredges:  
Station Nos 1-18

CHIEF SCIENTIST: W.R. Bryant  
Department of Oceanography  
Texas A&M University  
College Station, Texas 77843  
UNITED STATES



Plot No. 89

60°W

59°W

14°N

14°N

0

EASTWARD

Cruise - 70

4 February 1970

Cores: Station Nos 1-4

0

CHIEF SCIENTIST: G.H. Keller

NOAA - AOML

15 Rickenbacker Causeway

Miami, Florida 33149

UNITED STATES

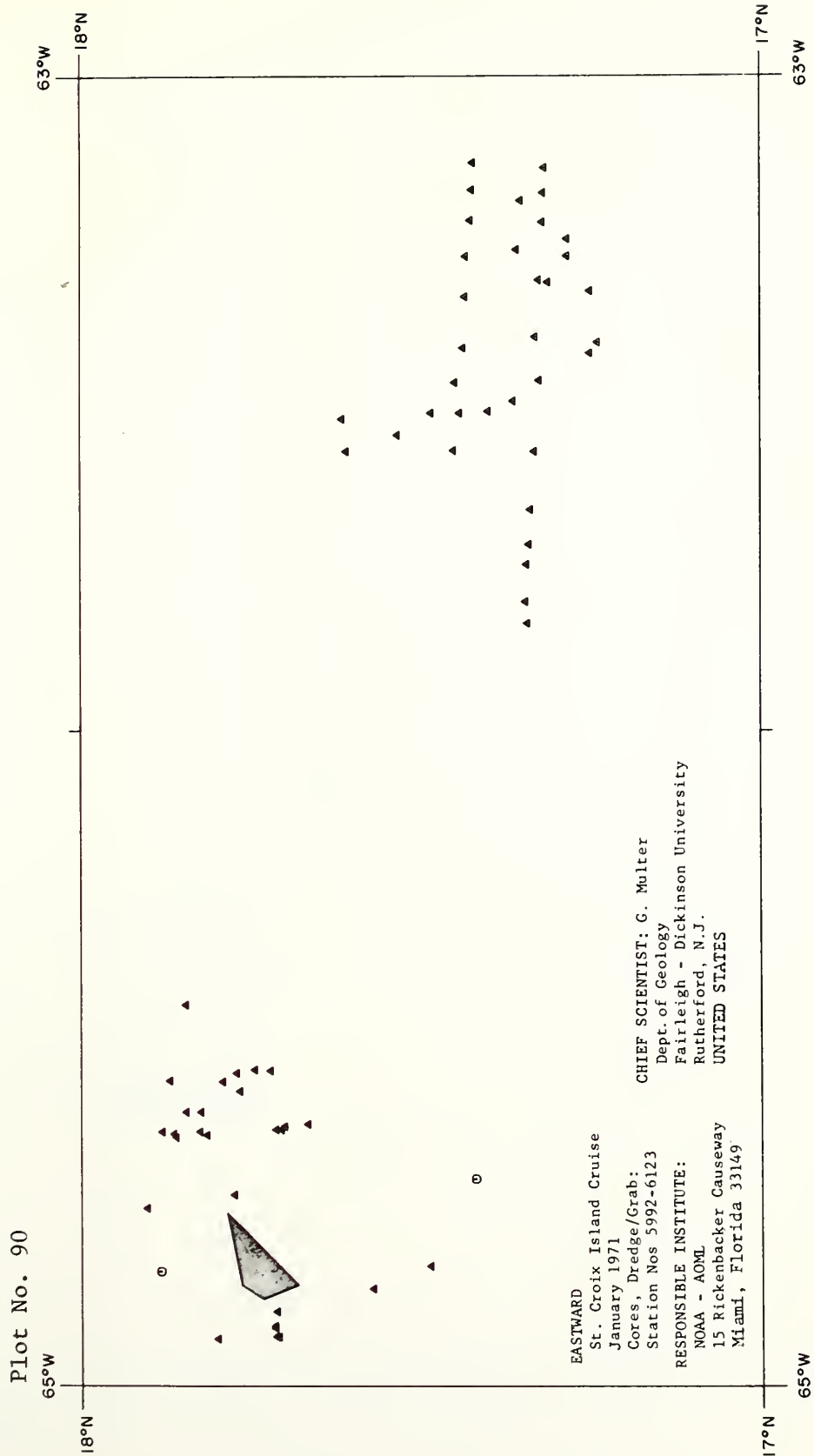
00

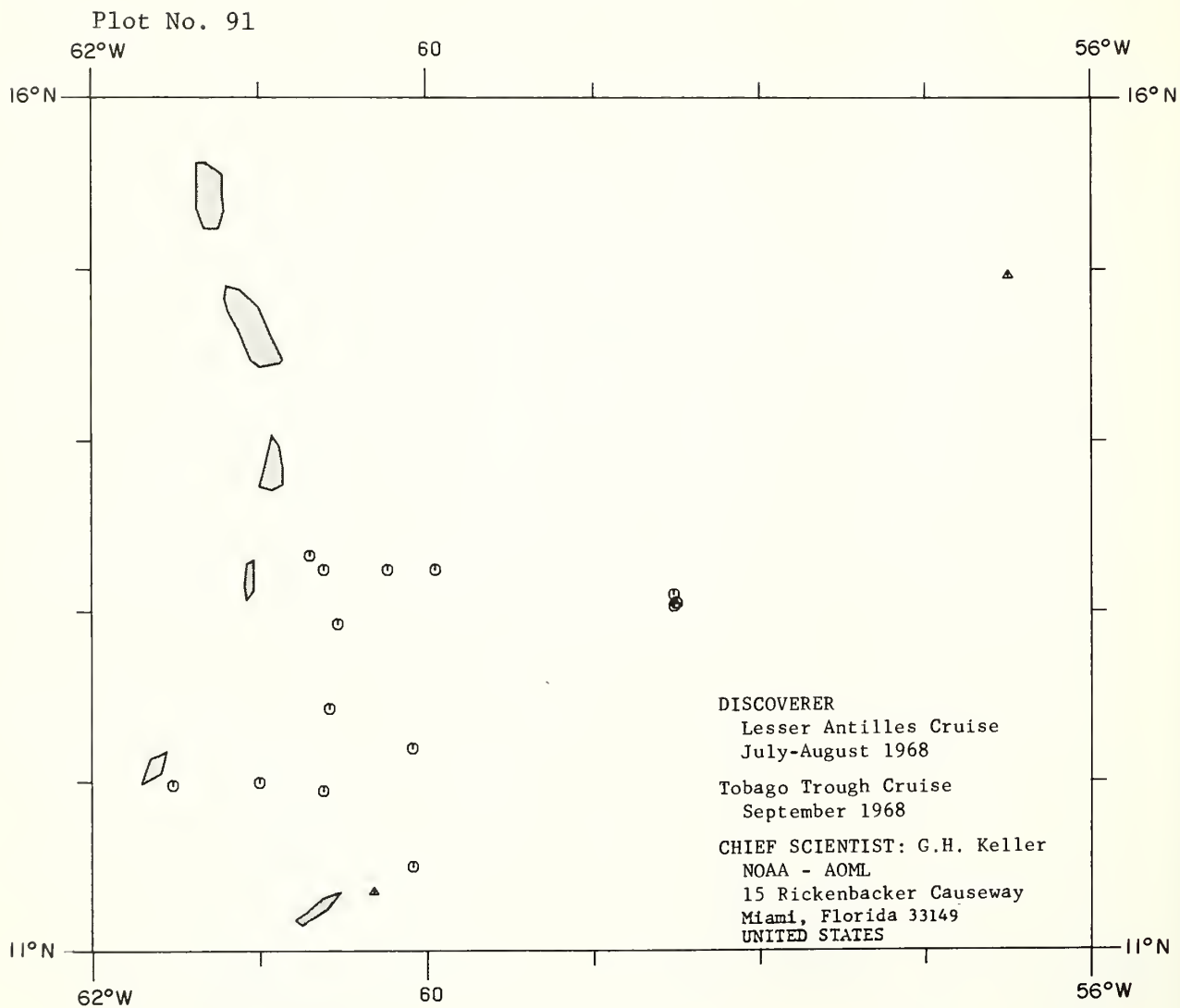
13°N

13°N

60°W

59°W





Plot No. 92

45°W

14°N

39°W

14°N

0

10°N

45°W

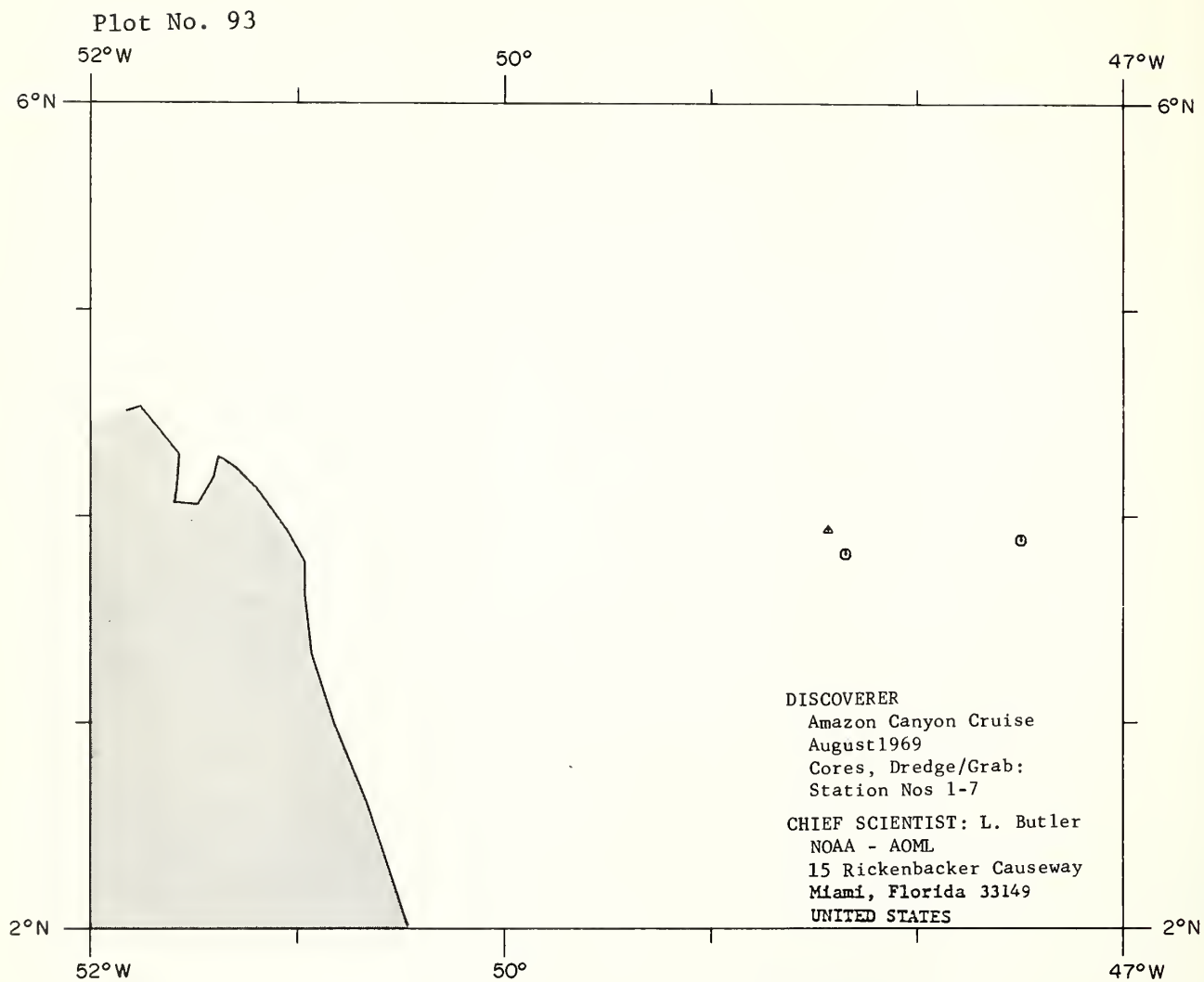
40°

39°W

10°N

DISCOVERER  
ATEX-69 Cruise  
February 1969  
Cores: Station Nos 1-4  
CHIEF SCIENTIST: G.H. Keller  
NOAA - AOML  
15 Rickenbacker Causeway  
Miami, Florida 33149  
UNITED STATES

0





Plot No. 94

85°W

2°S

2°S

81°W

0

5°S

5°S

85°W

81°W

DISCOVERER  
Cruise SCOR  
18 May 1970  
Core: Station No. 1  
CHIEF SCIENTIST: G.H. Keller  
NOAA - AOML  
15 Rickenbacker Causeway  
Miami, Florida 33149  
UNITED STATES

Plot No. 95

60°W

14°N

59°W

14°N

44°N

70°W

Plot No. 96

68°W

44°N

42°N

68°W

42°N

70°W

13°N

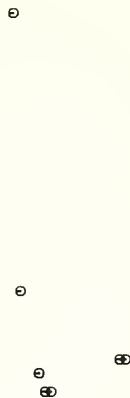
59°W

60°W

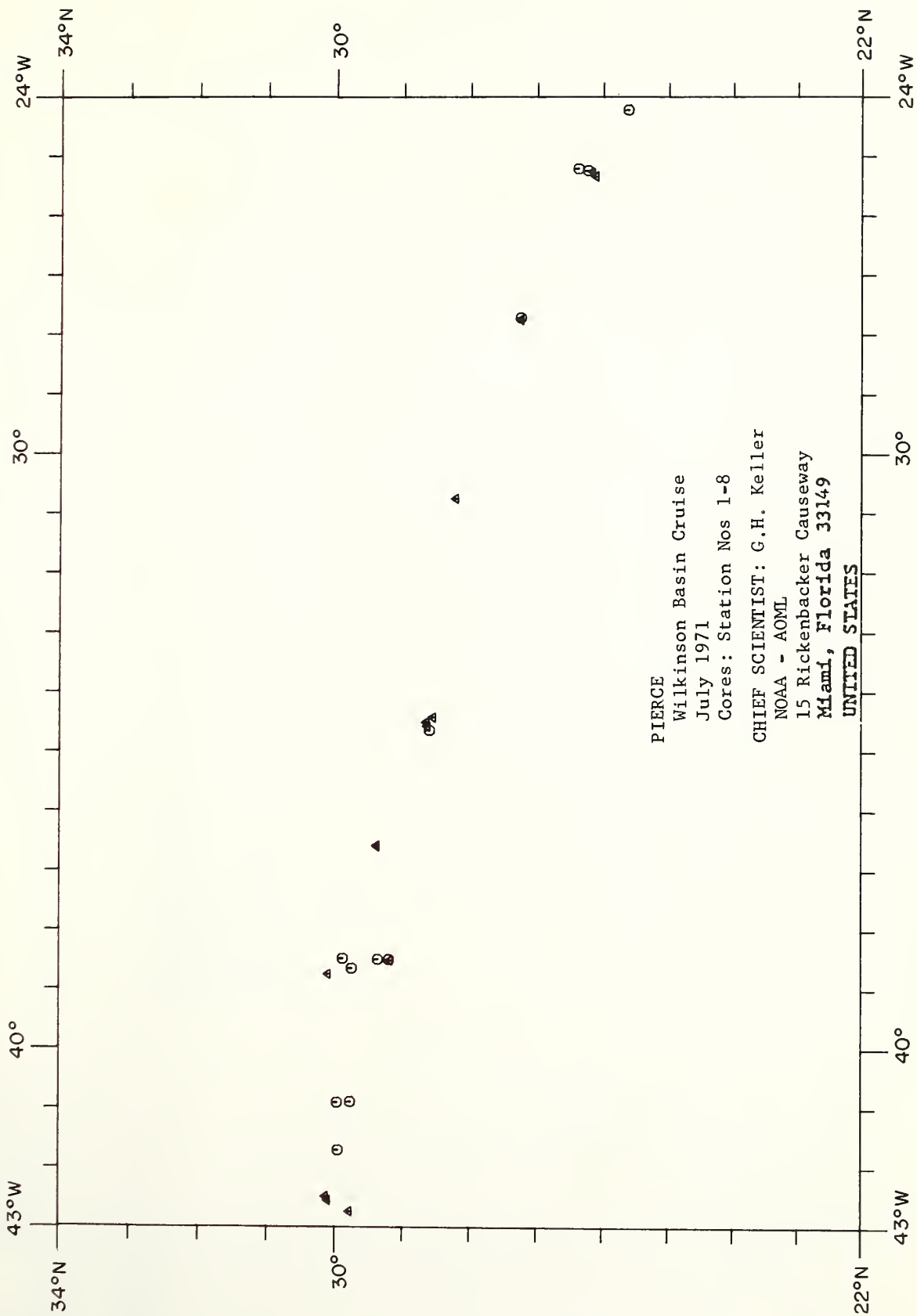


DISCOVERER  
Trans-Atlantic Geotraverse 71  
May-June 1971  
Cores, Dredge/Grab:  
Station Nos 1A-10G  
CHIEF SCIENTIST: L. Butler  
NOAA - AOML  
15 Rickenbacker Causeway  
Miami, Florida 33149  
UNITED STATES

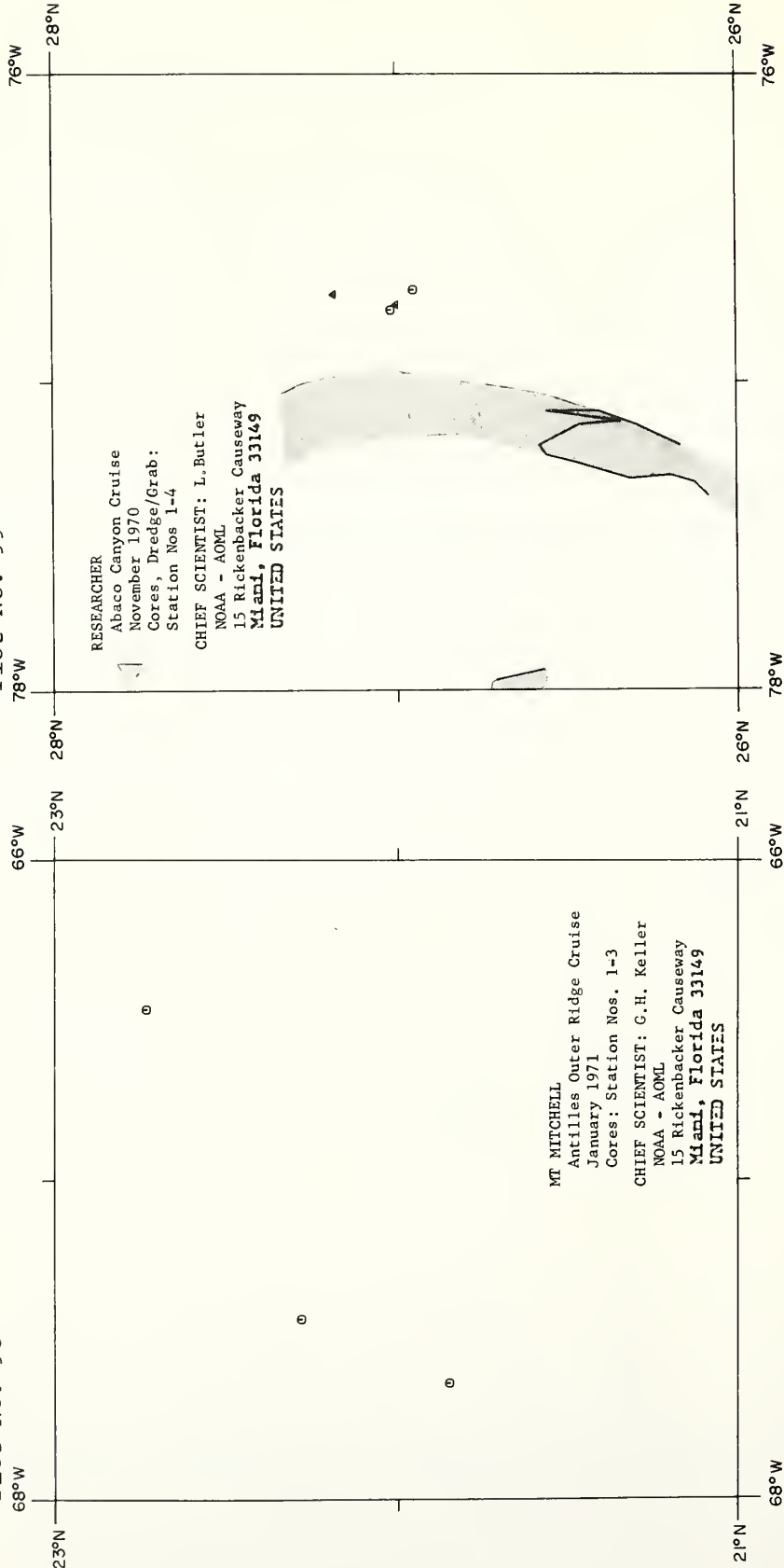
DISCOVERER  
Lesser Antilles Arc Study  
12 September 1970  
Cores: Station Nos 1-3  
CHIEF SCIENTIST: G.H. Keller  
NOAA - AOML  
15 Rickenbacker Causeway  
Miami, Florida 33149  
UNITED STATES



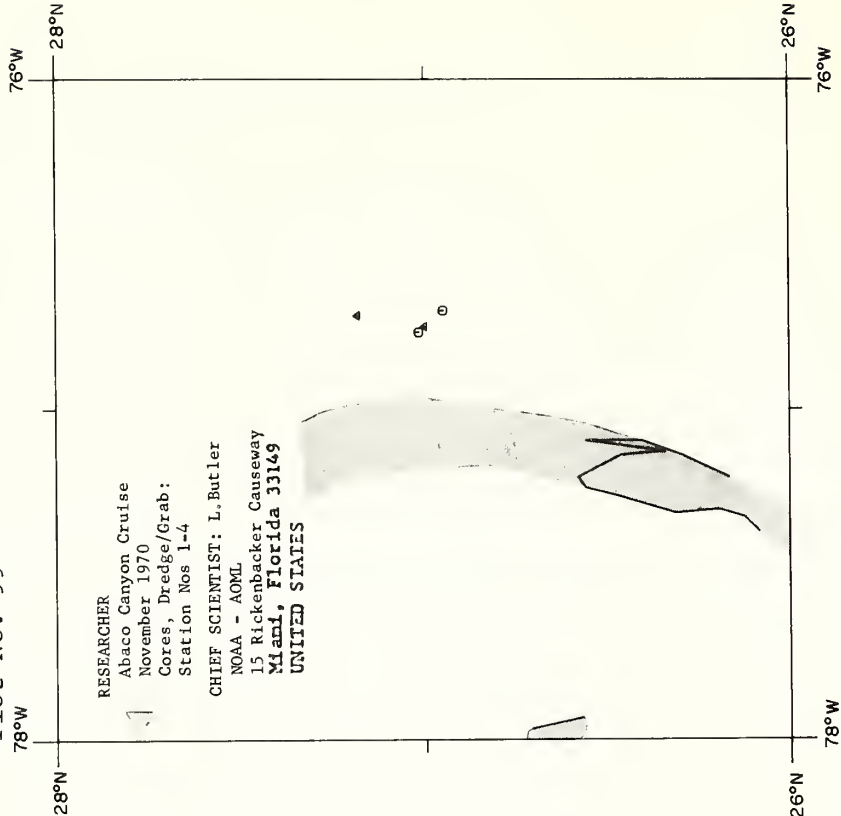
Plot No. 97



Plot No. 98

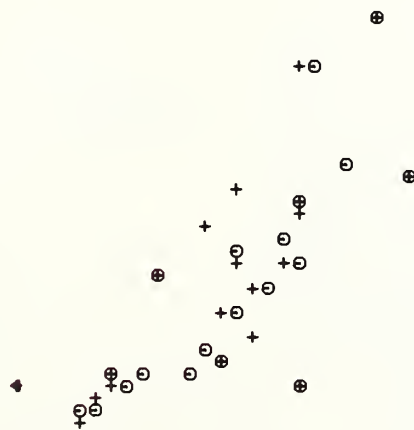


Plot No. 99



Plot No. 100  
73°W

40°N 71°W 40°N

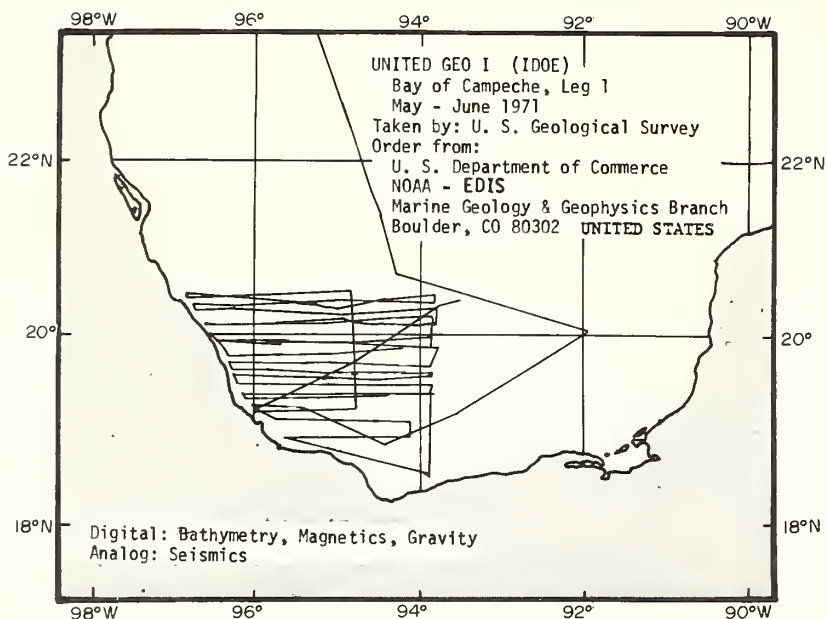


ANNANDALE  
Hudson Canyon II Cruise  
September 1972  
Cores, Dredge/Grab,  
Bottom photographs:  
Station Nos 1-30

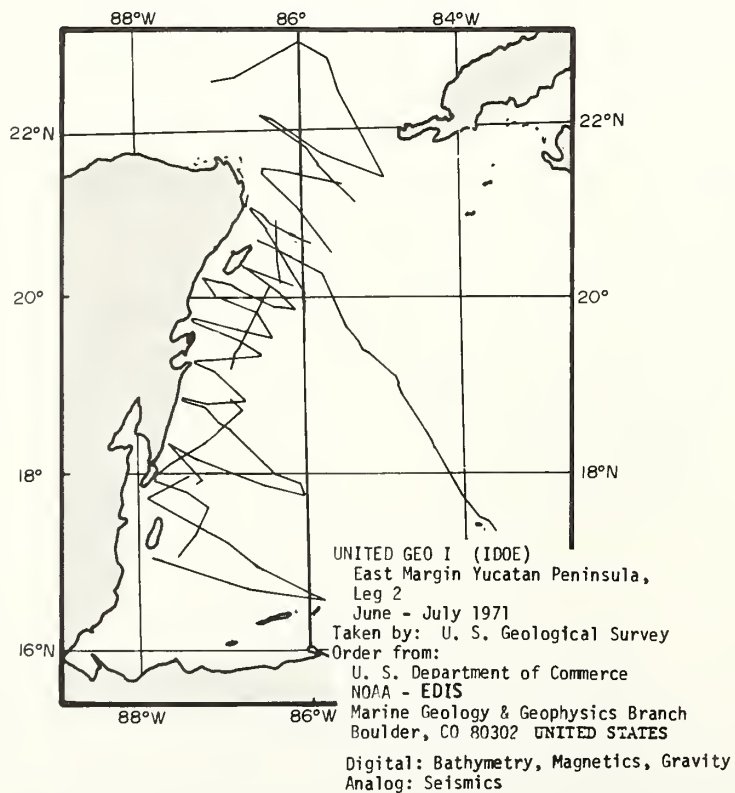
CHIEF SCIENTIST:  
NOAA - AOML  
15 Rickenbacker Causeway  
Miami, Florida 33149  
UNITED STATES

39°N 73°W 39°N 71°W

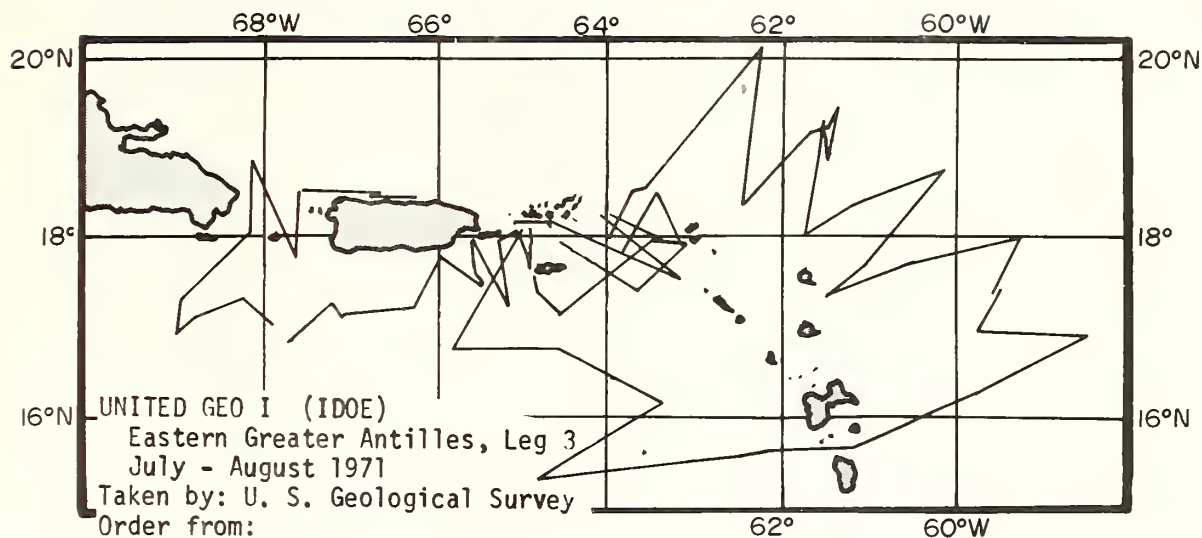
Plot No. 101



Plot No. 102

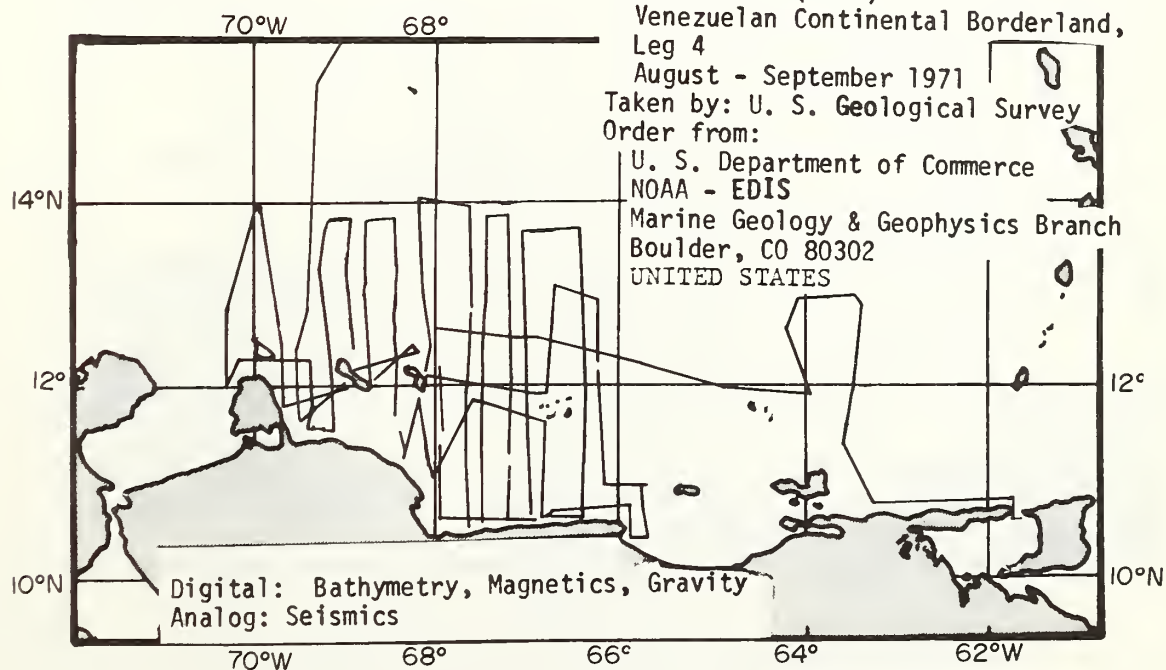


Plot No. 103



UNITED GEO I (IDOE)  
Eastern Greater Antilles, Leg 3  
July - August 1971  
Taken by: U. S. Geological Survey  
Order from:  
U. S. Department of Commerce  
NOAA - EDIS  
Marine Geology & Geophysics Branch  
Boulder, CO 80302  
UNITED STATES  
Digital: Bathymetry, Magnetics, Gravity  
Analog: Seismics

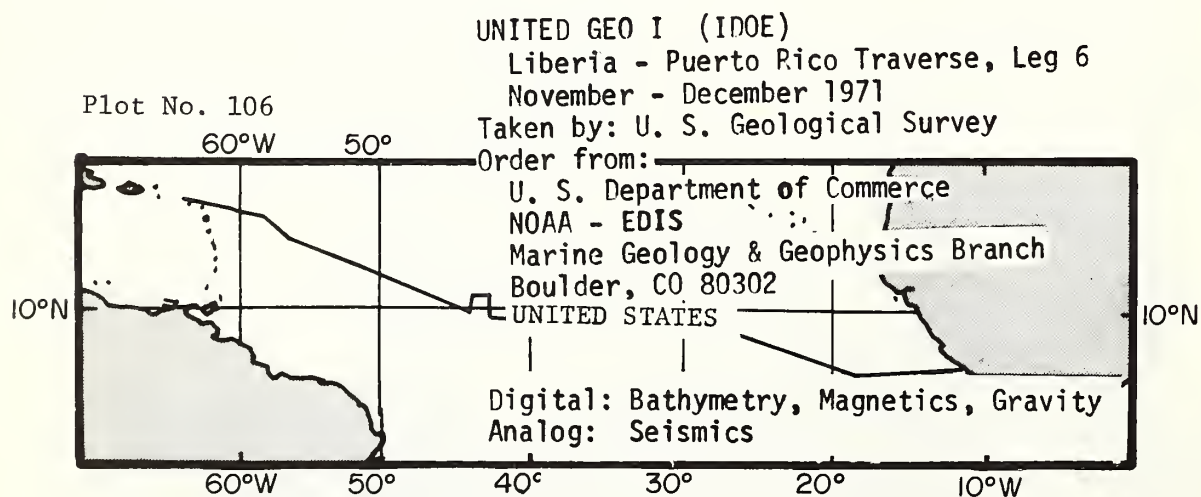
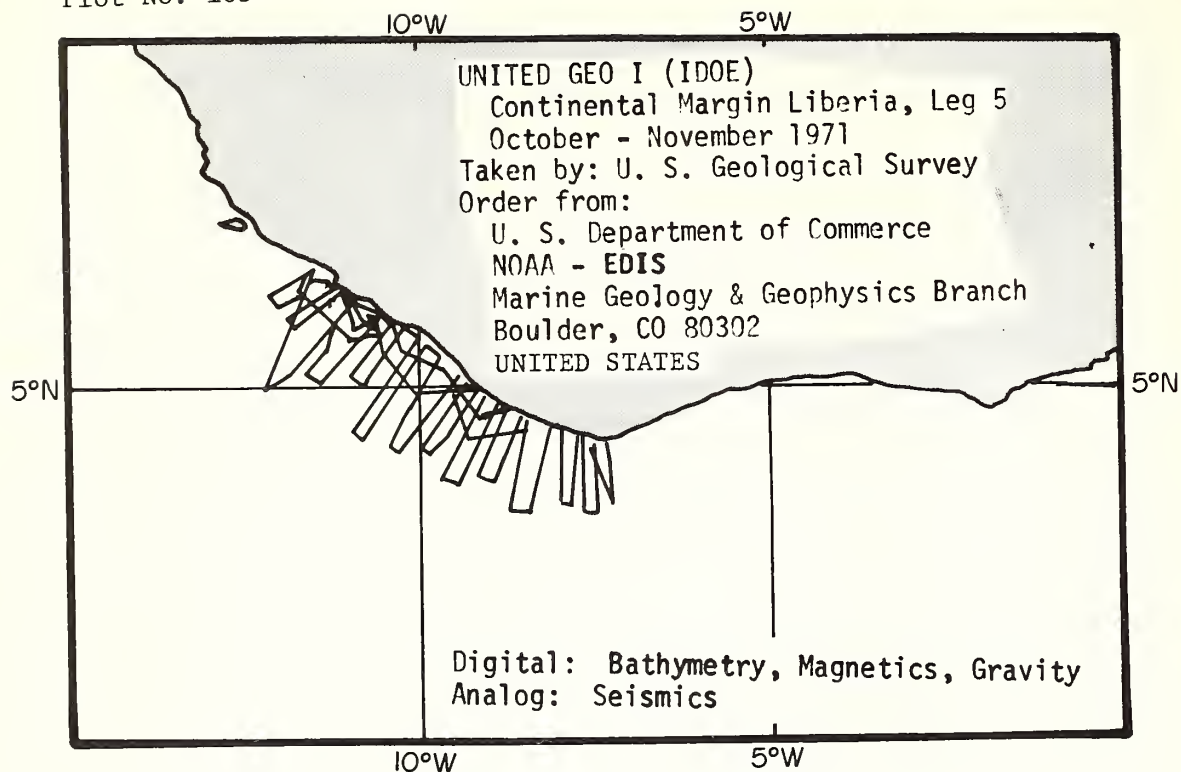
Plot No. 104



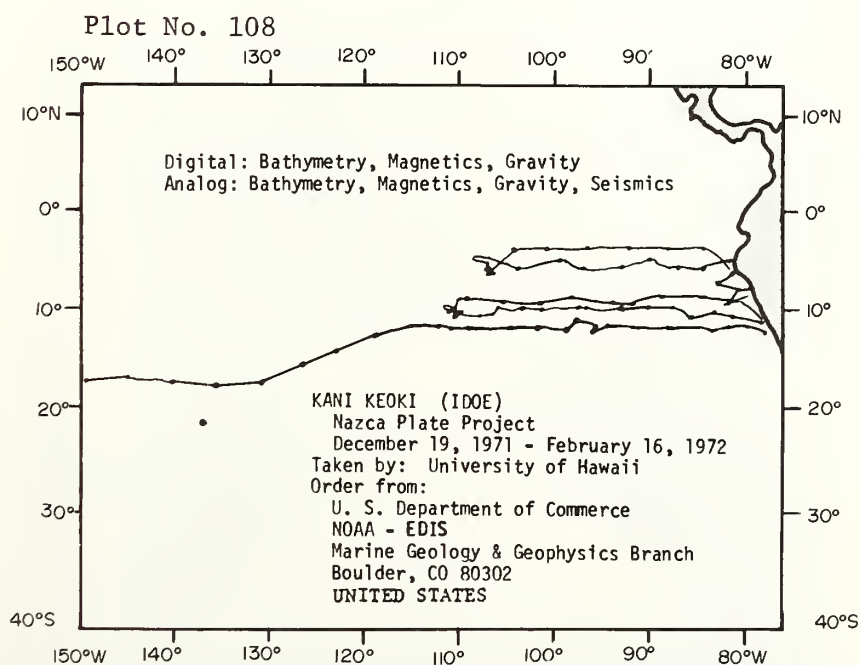
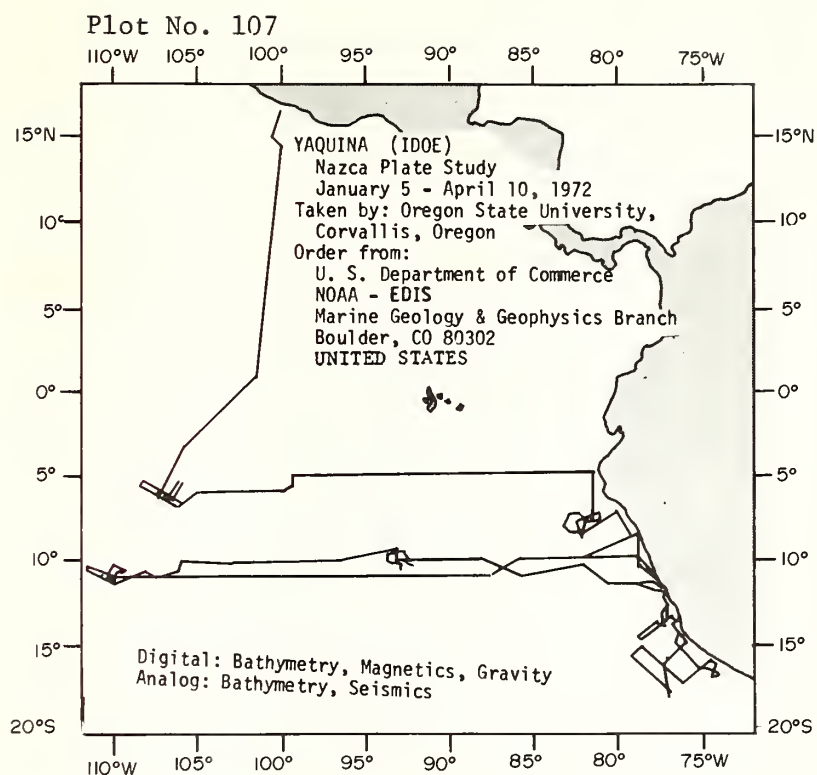
UNITED GEO I (IDOE)  
Venezuelan Continental Borderland,  
Leg 4  
August - September 1971  
Taken by: U. S. Geological Survey  
Order from:  
U. S. Department of Commerce  
NOAA - EDIS  
Marine Geology & Geophysics Branch  
Boulder, CO 80302  
UNITED STATES

Digital: Bathymetry, Magnetics, Gravity  
Analog: Seismics

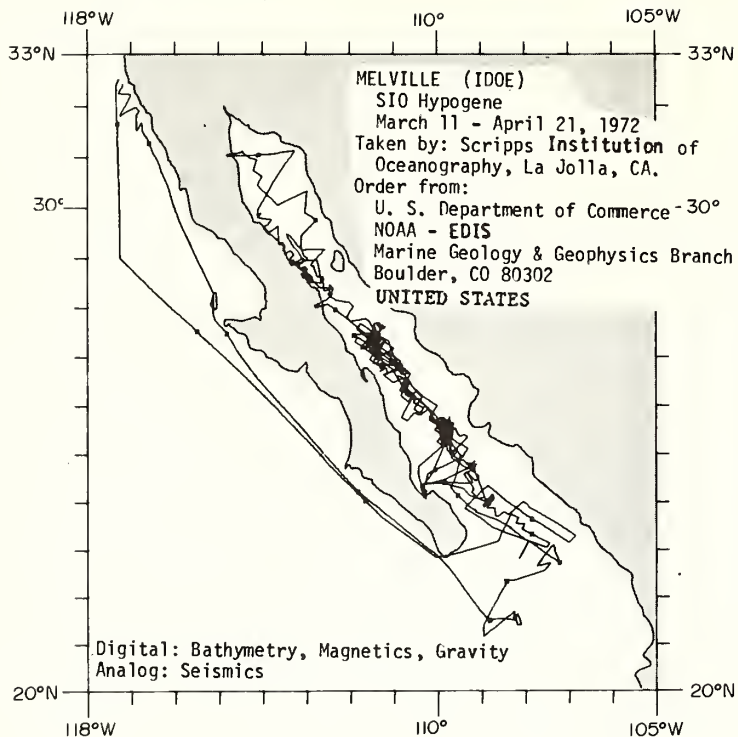
Plot No. 105



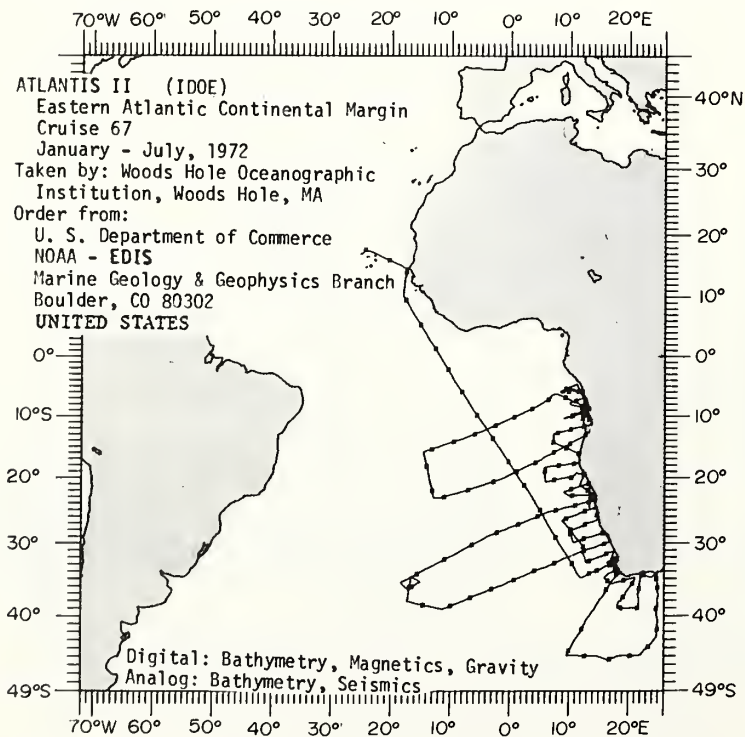




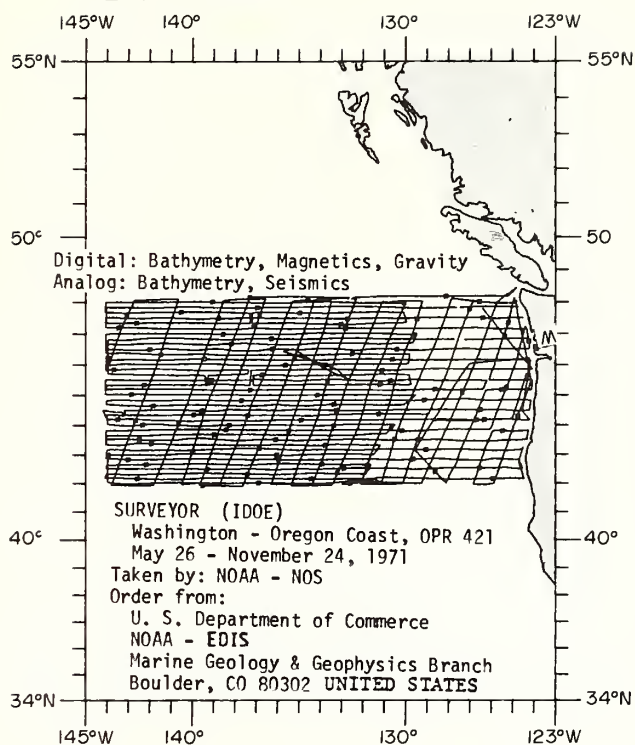
Plot No. 109



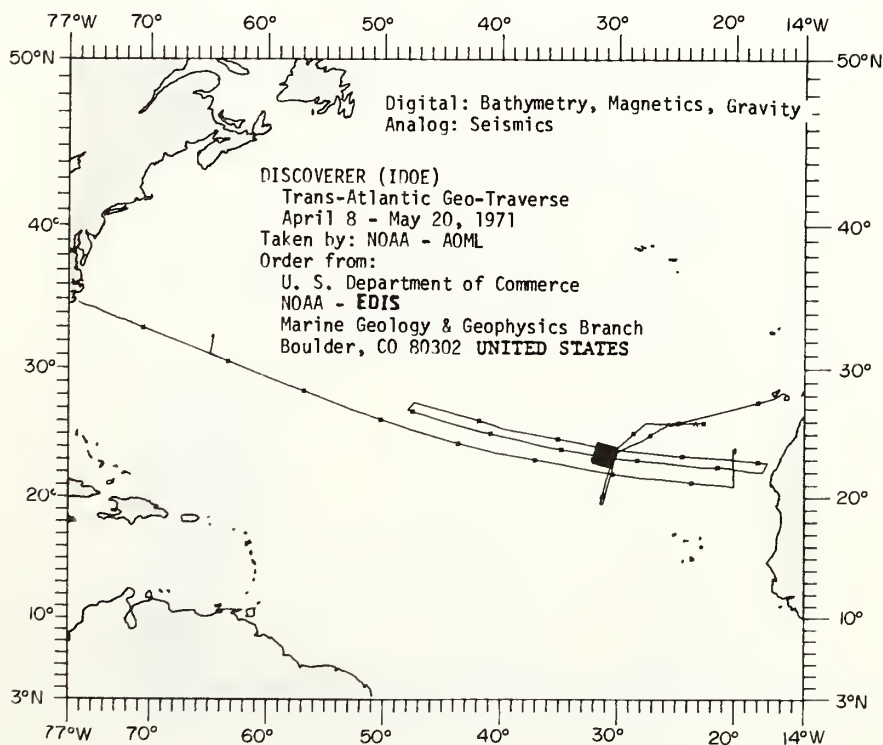
Plot No. 110



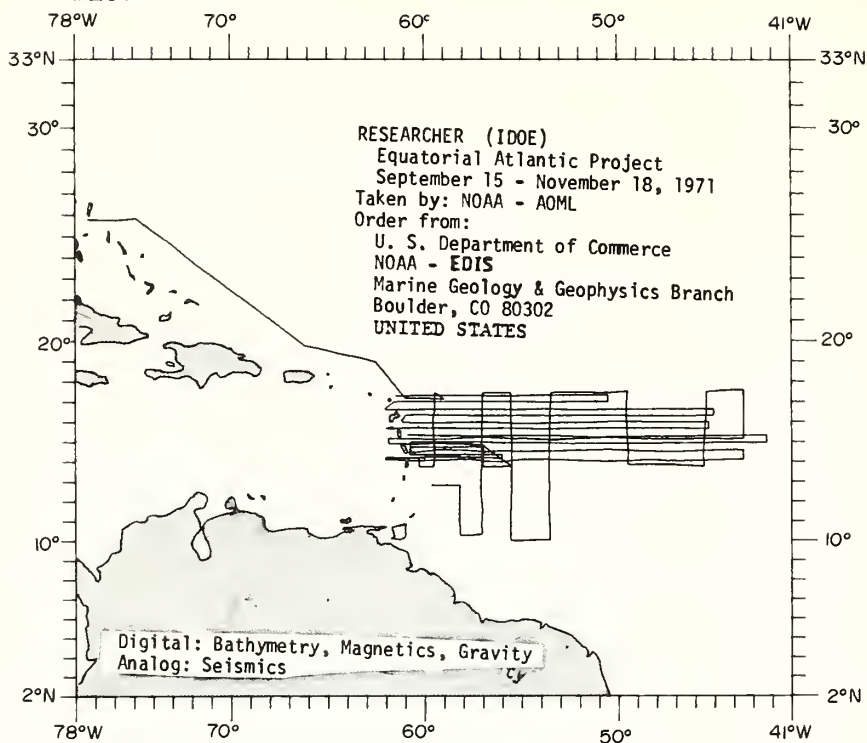
Plot No. 111



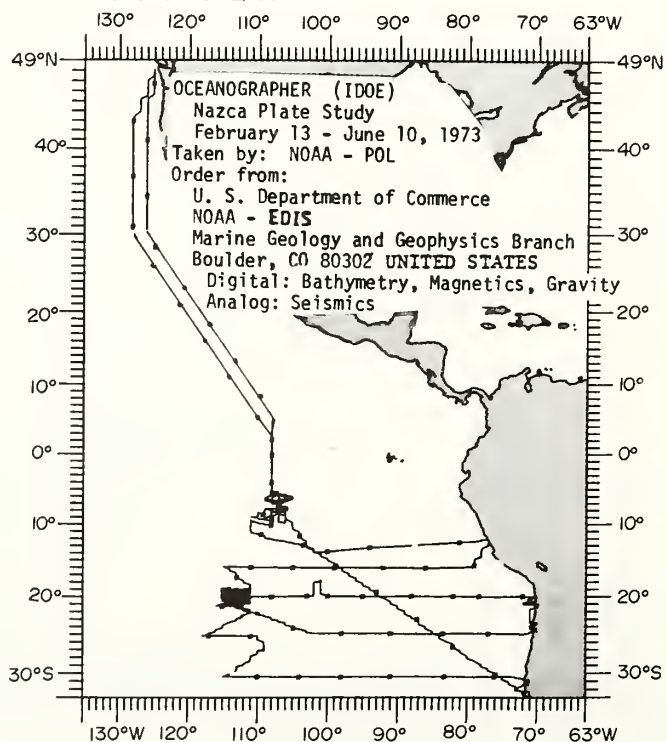
Plot No. 112



Plot No. 113



Plot No. 114



68°W 60° 50° 40° 30° 20° 10°W

21°S

30°

40°

50°

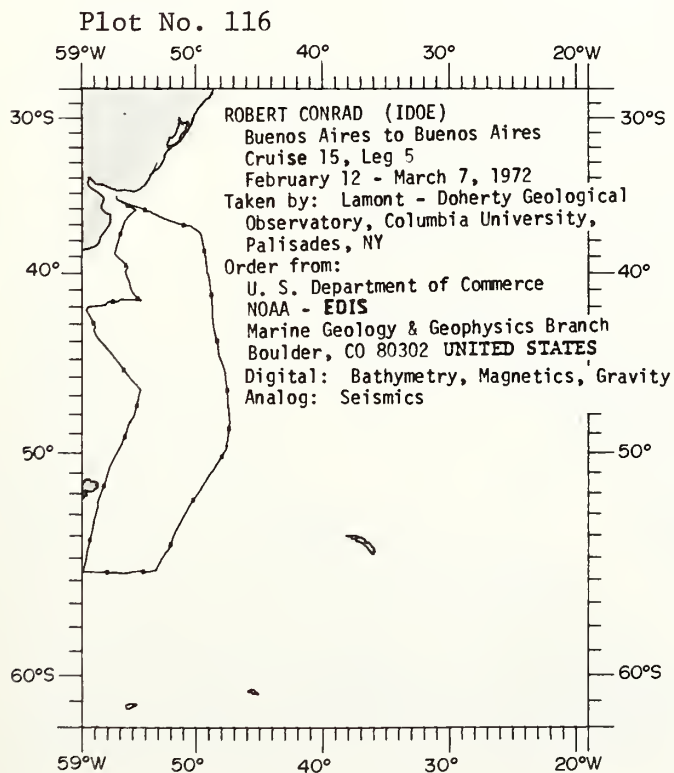
60°

68°S

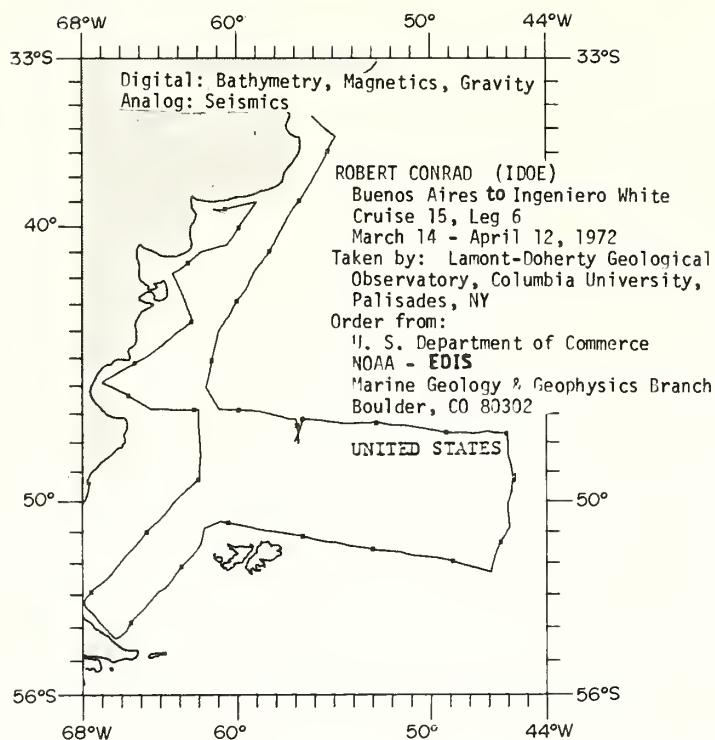
Digital: Bathymetry, Magnetics, Gravity  
Analog: Seismics

ROBERT CONRAD (IDOE)  
Punta Arenas to Buenos Aires  
Cruise 15, Leg 4  
January 6 - February 5, 1972  
Taken by: Lamont-Doherty Geological  
Observatory, Columbia University,  
Palisades, NY  
Order from:  
U. S. Department of Commerce  
NOAA - EDIS  
Marine Geology and Geophysics Branch  
Boulder, CO 80302 UNITED STATES

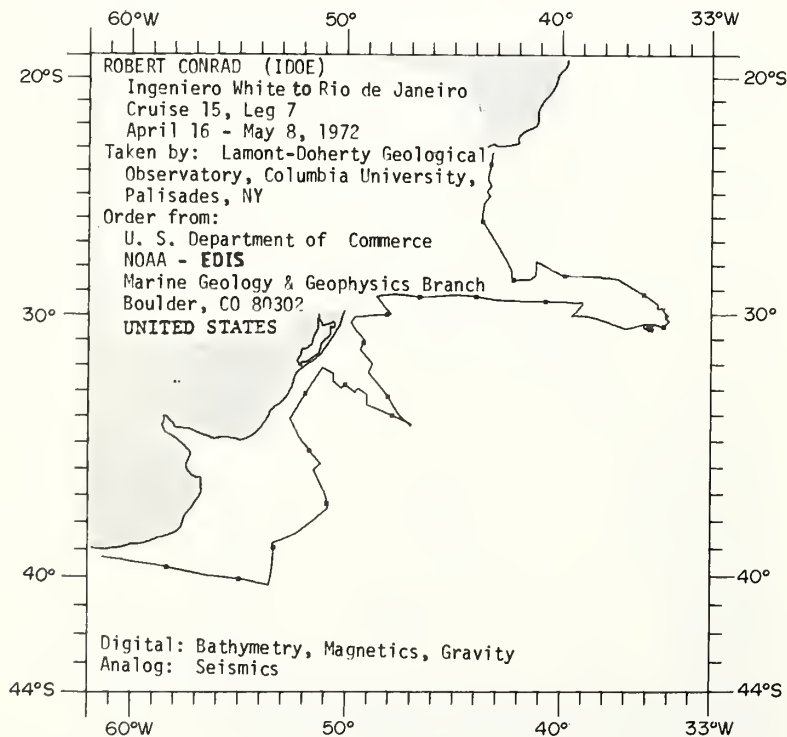
68°W 60° 50° 40° 30° 20° 10°W



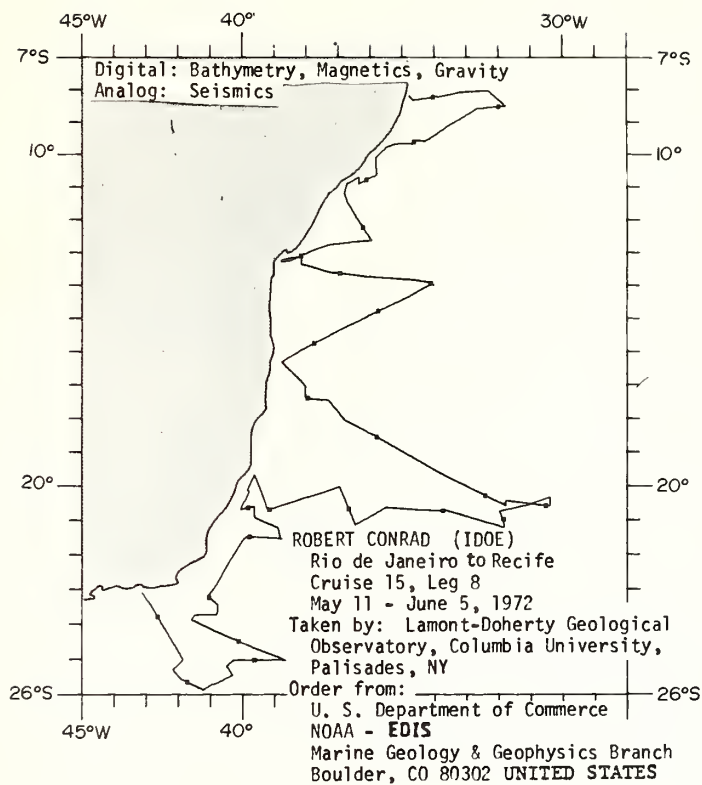
Plot No. 117



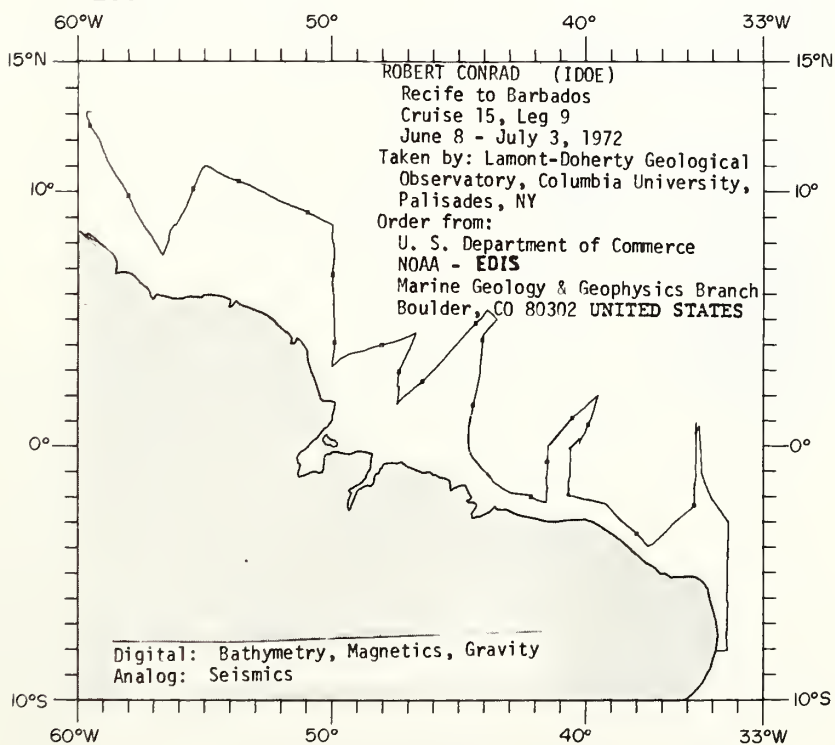
Plot No. 118



Plot No. 119

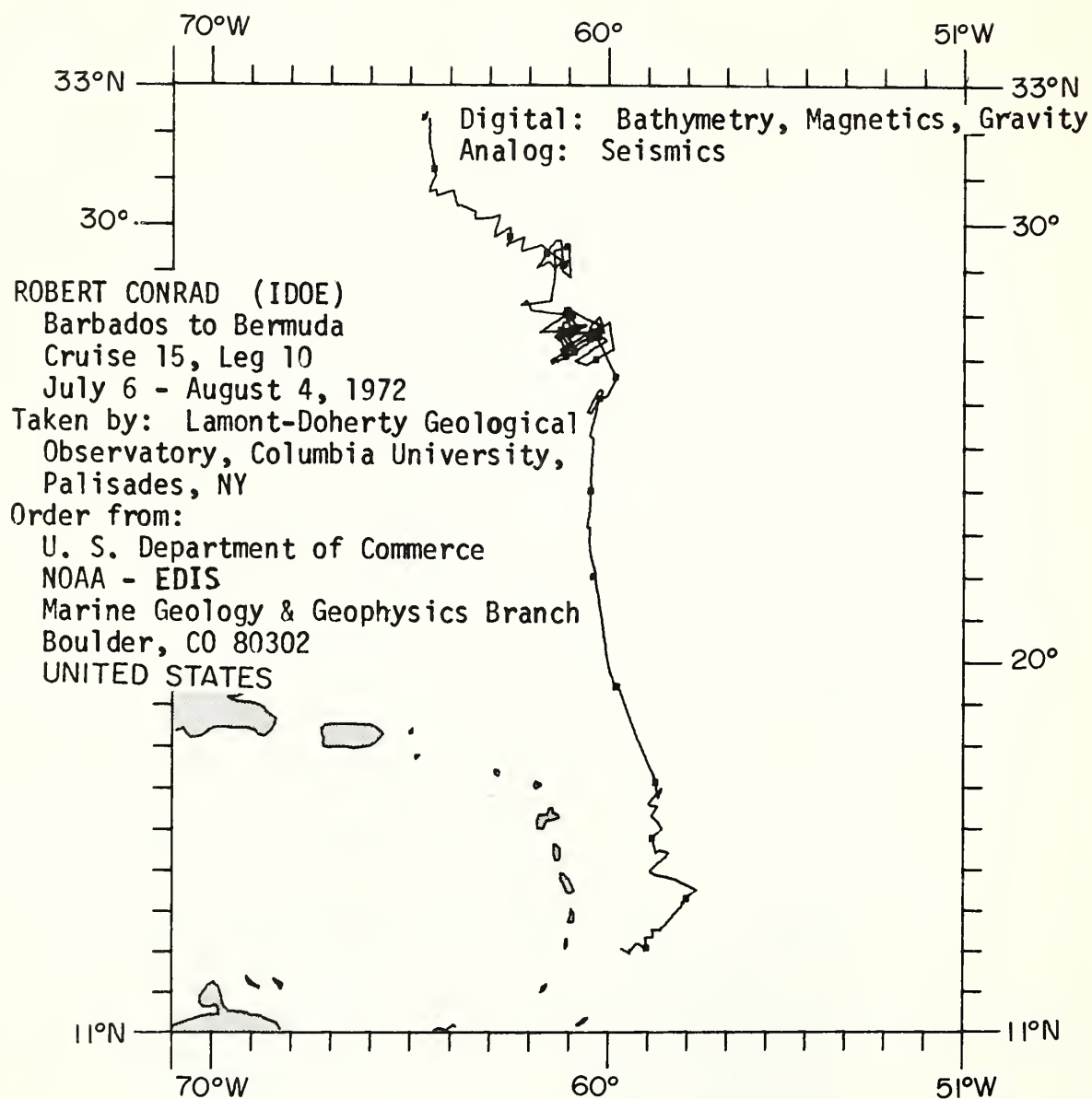


Plot No. 120





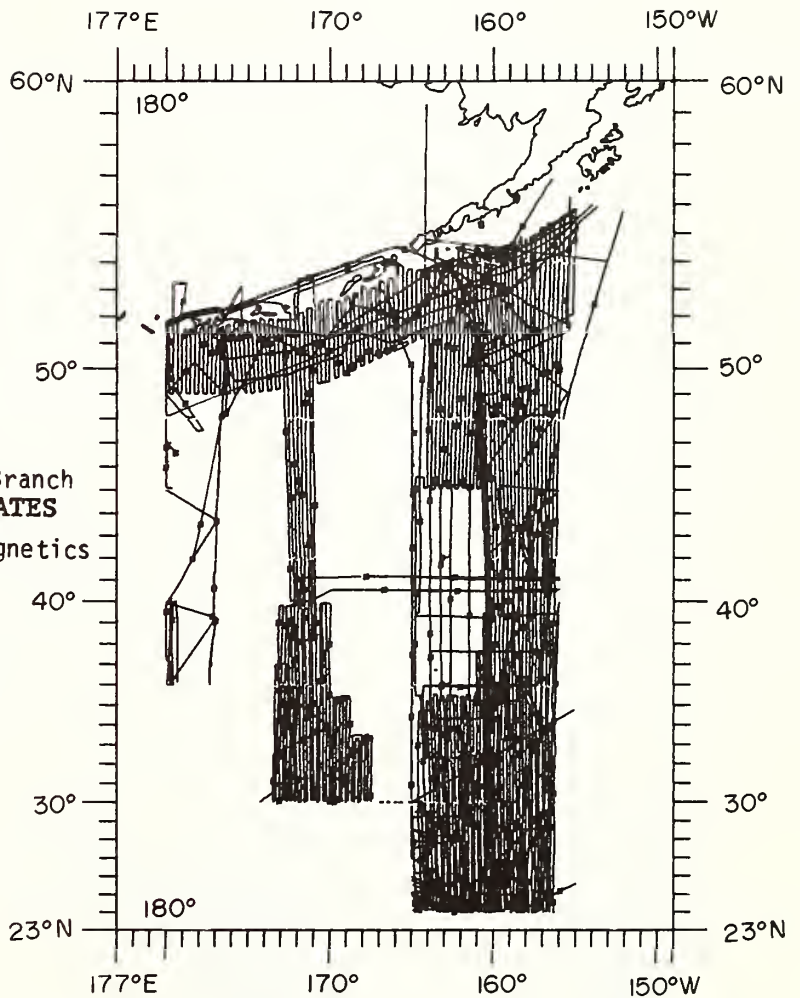
Plot No. 121



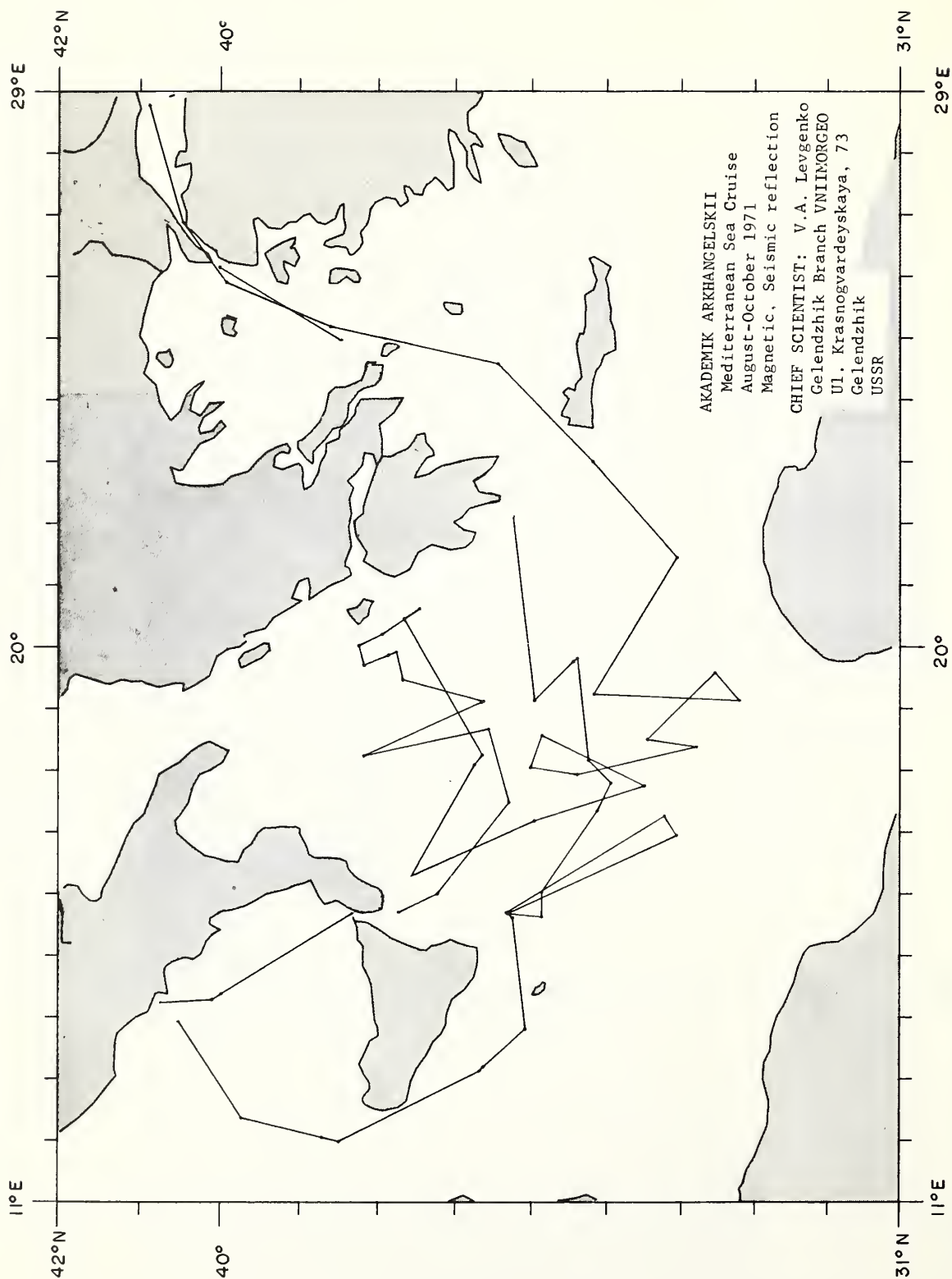


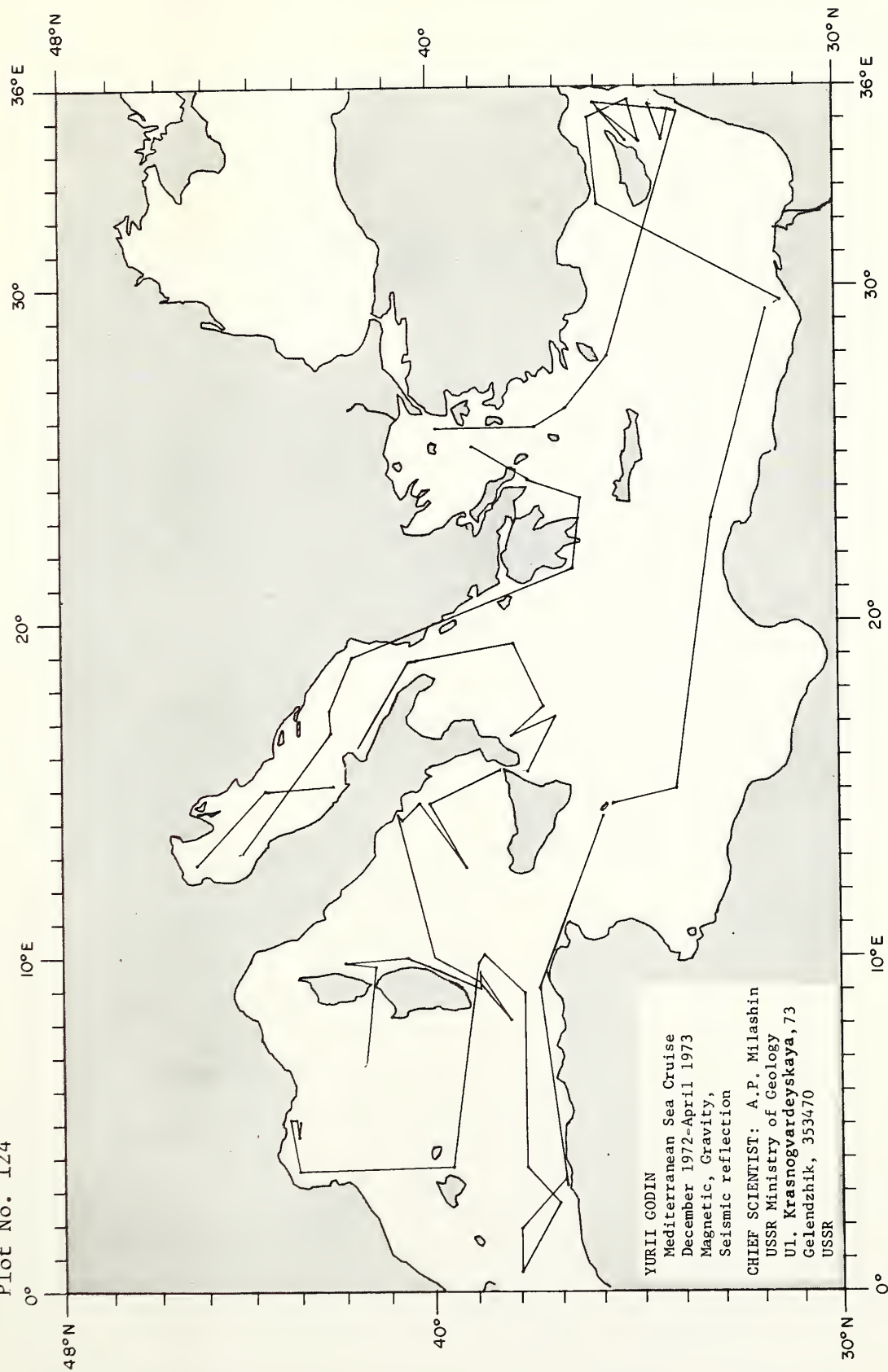
Plot No. 122

PIONEER & OSS SURVEYOR (IDOE)  
Pacific Sea Map, OPR 421  
1961 - 1970  
Taken by: NOAA - NOS  
U. S. Department of Commerce  
NOAA - EDIS  
Marine Geology & Geophysics Branch  
Boulder, CO 80302 UNITED STATES  
Digital: Bathymetry, Gravity, Magnetics



Plot No. 123







## APPENDIX 1.

### The International Geological/Geophysical Cruise Inventory

#### Instructions and Form

A copy of the IGGCI form can be found on page 1-4 of this appendix. Pages 1-2 and 1-3 contain instructions for completing the form, and page 1-5 shows the header designations for the automated format.

# INTERNATIONAL GEOLOGICAL/GEOPHYSICAL CRUISE INVENTORY (IG/GCI)

(Revised Edition, February 1973)

## Columns 12-17, Platform

The code designation for the platform will be entered at the data center.

## Columns 18-21, Originator's Station Number

Enter the originator's station number; place the first character in Column 18. If additional space is required, use "Remarks" space.

## Columns 22-24, Institution

The code designation for the sponsoring institution will be entered by the data center.

## Columns 25-27, Year

Enter the last three digits of the year. Drop thousands digit (e.g., 972).

## Columns 28-29, Month

Enter the month in arabic numerals 01 through 12.

## Columns 30-31, Day

Enter the day of the month in arabic numerals 01 through 31.

## Columns 32-44, Latitude, Longitude

Enter the latitude and longitude in degrees, minutes, and tenths of a minute of the beginning and ending position of a traverse, major change in cruise track, change in traverse work and/or station position. If position is not known to tenths of a minute, leave Columns 36 and 43 blank.

## Columns 45-49, Depth

Enter the sounding depth in meters at the geographic position reported in Columns 32 through 44. Prefix zeros to fill the field.

## Columns 50-55, Traverse

Enter check if measurements corresponding to headings are made. If entry is made, keypunch "X". If Column 55 is checked, specify in "Remarks".

## Columns 56-59, Station

Enter check if samples corresponding to headings are taken. If entry is made, keypunch "X".

## Columns 60-61, General Lithology

If a sample is obtained, enter its general description in Column 61 according to following code. Enter second dominant fraction, if any, in Column 60.

Description	Code	Description	Code
Coarser than sand	0	Nodules, slabs, concretions	
Sand	1	(manganese, iron, glauconite,	
Silt	2	phosphate)	8
Clay	3	Hard bottom - no recovery, not	
Ooze	4	resulting from equipment	
Mud	5	failure (less than 1 cm. or	
Rock, rock fragments	6	1 dm. <sup>3</sup> ), enter code in Col. 61	
Organic material (shell, peat,		Leave Column 60 blank.	9
wood, coral, etc.)	7		

## Columns 62-66, Quantity

Enter length of core obtained in centimeters. Enter volume of dredge or grab obtained in cubic decimeters (liters). Justify to the left (i.e., add zeros to left to fill the field).

## Columns 67-76

Enter check if a measurement corresponding to headings is made. If entry is made, keypunch "X". If Column 76 is checked, specify in "Remarks".

## Column 77, Leave blank.

## Column 78, Card Type

The Code designation for card type will be entered by the data center.

## Columns 79-80, Deck Type

Code designation 42 for this deck will be entered by the data center.



The INTERNATIONAL GEOLOGICAL/GEOPHYSICAL CRUISE INVENTORY (IG/GCI) form has been endorsed by the Scientific Committee on Oceanic Research (SCOR) and the Intergovernmental Oceanographic Commission (IOC-UNESCO) Working Group on International Oceanographic Data Exchange. This version is revised to provide for entry of the general description and quantity of reported geological samples and additional positional detail.

The IG/GCI supplements the Report of Observations/Samples Collected by Oceanographic Programs (RO/SCOP) in meeting the expressed needs of geologists and geophysicists for more precise inventory information on the geographic distribution of samples and data.

#### General Instructions

1. Type all entries or print them in black ink or dark pencil to facilitate copying by the responsible data center.
2. Prefix zeros to fill a field; do not suffix zeros.
3. Provide general information (upper part of form) once for each cruise or leg, unless changes require different information.
4. Begin a new sheet with each cruise or leg or with each change of chief scientist.
5. (a). To indicate the beginning of a traverse, place check(s) in applicable column(s) under "Traverse" field heading. The latitude and longitude given is that of the beginning position of the traverse. To indicate major changes in cruise track or change in traverse work, enter the position(s) at which the track direction changes on successive lines; be sure to continue placing checks in the appropriate columns under the "Traverse" heading. To indicate the end-position of a traverse, enter the ending latitude and longitude without placing a check in any of the columns of the "Traverse" heading. Similarly, if only a particular type of traverse observation is discontinued, identify the end-position by the first absence of the appropriate check in the respective data column.

Should any ambiguity in depicting traverse continuity be suspected, augment the above system by explanatory entries in the "Remarks" space.

NOTE: For this inventory purpose, record only major or especially significant changes in direction of ship's track. Do not report minor gaps in record, local zigzags, or small detours.

- (b). To indicate a station, enter position in continuity with ship's track and check appropriate column(s).

IMPORTANT: 1. If the traverse work continues along the ship's track past a station entry, be sure to place appropriate checks under the traverse heading. Otherwise, according to the scheme in 5(a), the end of a traverse would be erroneously indicated; 2. When a station location coincides with the beginning, course change, or end of a traverse, do not enter the station information on a separate line on the form.

NOTE: Upon completion, send this form to the appropriate national data center or designated national agency where so instructed; otherwise, send to:

World Data Center A, Oceanography  
National Oceanic and Atmospheric Administration  
Washington, D.C. 20235 U.S.A.

or World Data Center B1, Oceanography  
Molodezhnaya, 3  
Moscow, 117296, U.S.S.R.

#### Specific Instructions

NOTE: Columns 1 through 17, 22 through 24; and 78 through 80 are for data center processing information and should not be coded by originator.

##### Columns 1-3, Country

The code designation for the country of the agency sponsoring or operating the vessel regardless of the ship registry will be entered by the data center,

##### Columns 4-8, Reference

These columns provide a cumulative identification reference number which is assigned by the data center before processing.

##### Columns 9-11, Consecutive Number

Consecutive numbers are assigned and coded by the data center and correspond to traverse runs and/or stations included within a single Reference Number. The runs and/or stations are consecutively numbered beginning with 001 regardless of originator's numbering system. Samples taken from same position, but from another lowering are assigned a new consecutive number. If additional space is required, use "Remarks" space.

NOAA FORM 24-18 (6-73)										INTERNATIONAL GEOLOGICAL/GEOPHYSICAL CRUISE INVENTORY (IG/GCI)										CRUISE NAME/NUMBER										FORM APPROVED: O.M.B. NO. 41-R2695 EXPIRES OCTOBER 1977																																																																																																																																																																																																																																																																													
NAME										SHIP/PLATFORM										LEG										Page _____ of _____																																																																																																																																																																																																																																																																													
TYPE										INSTITUTION RESPONSIBLE FOR PROGRAM										CHIEF SCIENTIST										INSTITUTION RETAINING SAMPLE OR RECORD										DATA RECORDED BY										OATES										FROM TO										YEAR MONTH DAY										LEAVE BLANK FOR DATA CENTER USE																																																																																																																																																																																																																											
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ORIGINATOR'S NUMBER										YEAR MONTH DAY										LATITUDE										LONGITUDE										DEPTH										MAGNETISM										GRAVITY										SEISMIC REFLECT.										SEISMIC REFRACTION										SIDE SCAN SONAR										OTHER (specify)										CORE										ORILL HOLE										DREGE/GRAB										DIRECT SAMPLE										GEN. LITHOLOGY										BOTTOM										SAMPLE LENGTH (cm.)										VOLUME (dm. <sup>3</sup> )										BOTTOM RESISTIVITY										SD. PROPAGATION										PHOTO, MOVIE, TV										HEAT FLOW										BOTTOM CURRENT										BOT. RADIOACTIVITY										GEOTECHNIQUE										GRAVITY										NEAR BOT. WATER										OTHER (specify)										C/T									
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																																



<u>COLUMN</u>	<u>HEADER</u>	<u>MEANING</u>
1-3	CTY	Country
4-8	REF	Reference number
9-11	NUM	Consecutive number
12-17	PLAT	Platform
18-21	SNUM	Originator's station number
22-24	INS	Institution
25-27	YR	Year
28-29	MO	Month
30-31	DY	Day
32-37	LAT	Latitude
38-44	LONG	Longitude
45-49	DEPTH	Depth in meters
50	A	Magnetism
51	B	Gravity
52	C	Seismic reflection
53	D	Seismic refraction
54	E	Side scan sonar
55	F	Other
56	G	Core
57	H	Drill hole
58	I	Dredge/Grab
59	J	Direct sample
60-61	KK	General lithology
62-66	LLLLL	Quantity: bottom sample length (cm) or volume (dm <sup>3</sup> )
67	M	Bottom resistivity
68	N	Sound propagation
69	O	Photo, movie, TV
70	P	Heat flow
71	Q	Bottom current
72	R	Bottom radioactivity
73	S	Geotechnique
74	T	Gravity
75	U	Near bottom water
76	V	Other
77-78		Blank
79-80	DK	"Deck 42"



## APPENDIX 2.

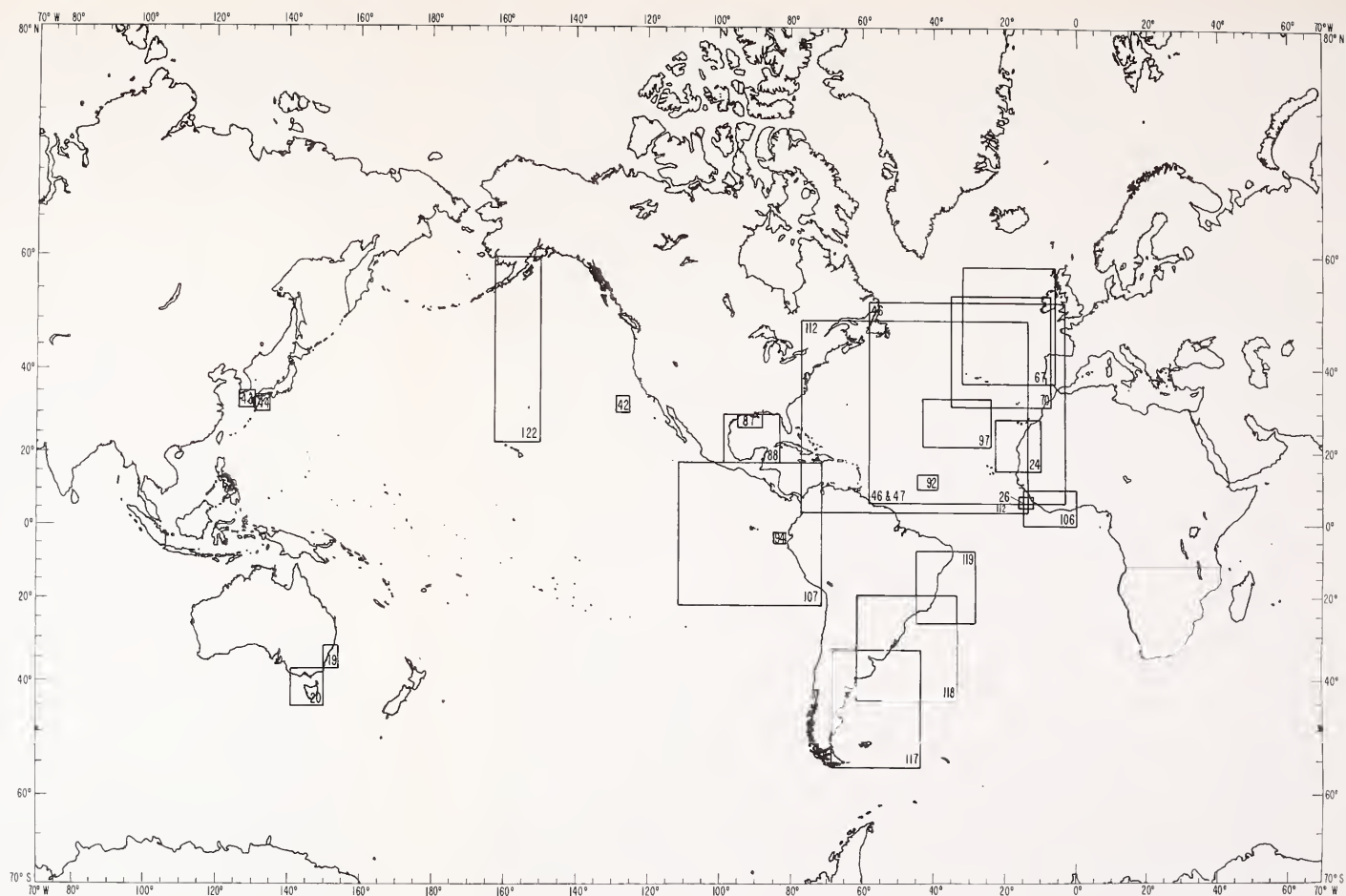
### Geographical Distribution of Plots

The purpose of this appendix is to aid the user in locating all plots which pertain to his area of interest. The plots are shown by number for easy reference. Page 2-2 shows a worldwide, multi-trackline plot of all cruises presented in this catalogue. Pages 2-3 and 2-4 show a world chart with the individual charts plotted to indicate their respective locations and pages 2-5 through 2-9 show Subarea 1 through Subarea 5 plots. These subarea plots provide a detailed breakdown for areas in which the large number of plots would have made it difficult to identify the exact locations and plot numbers on a worldwide scale.



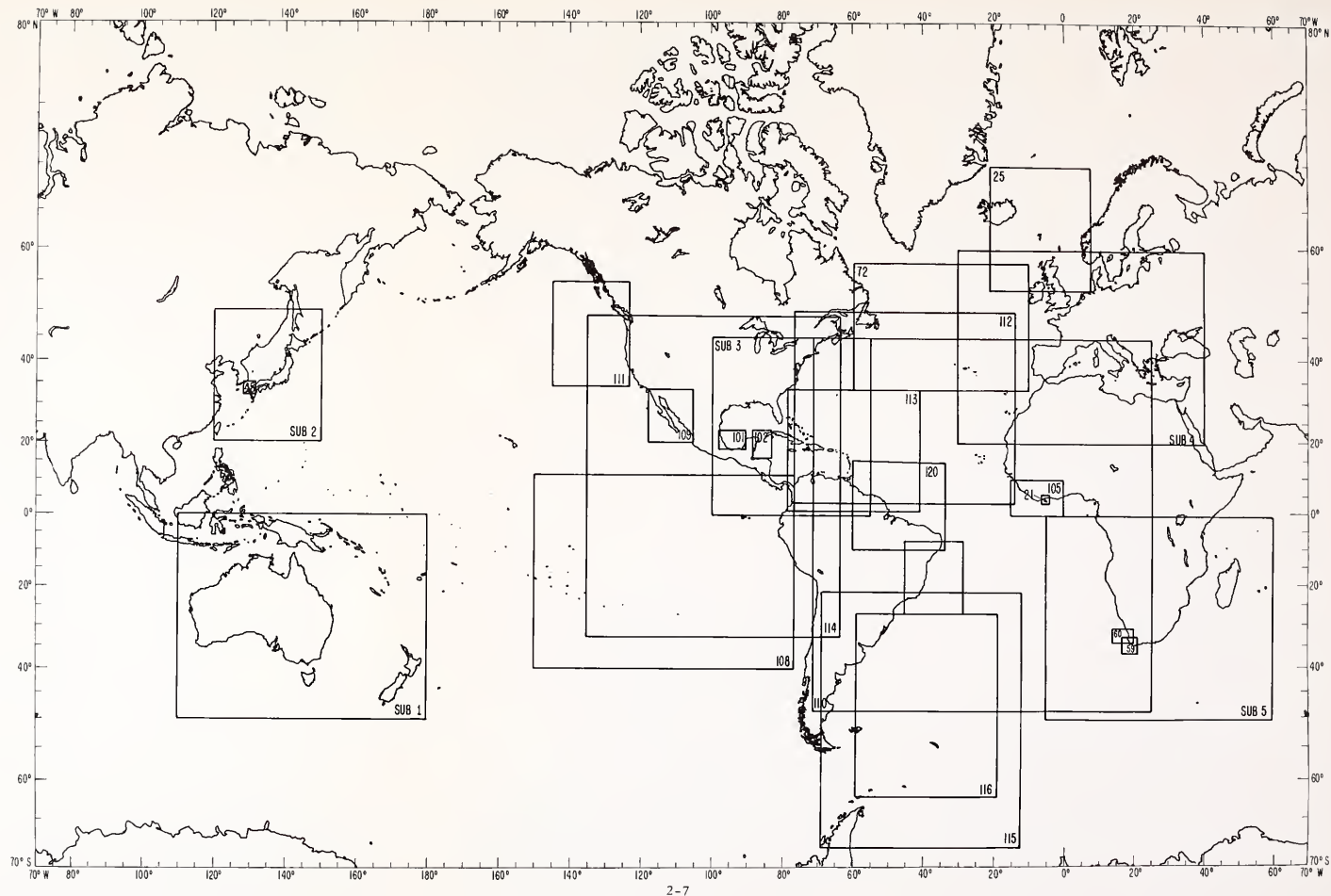




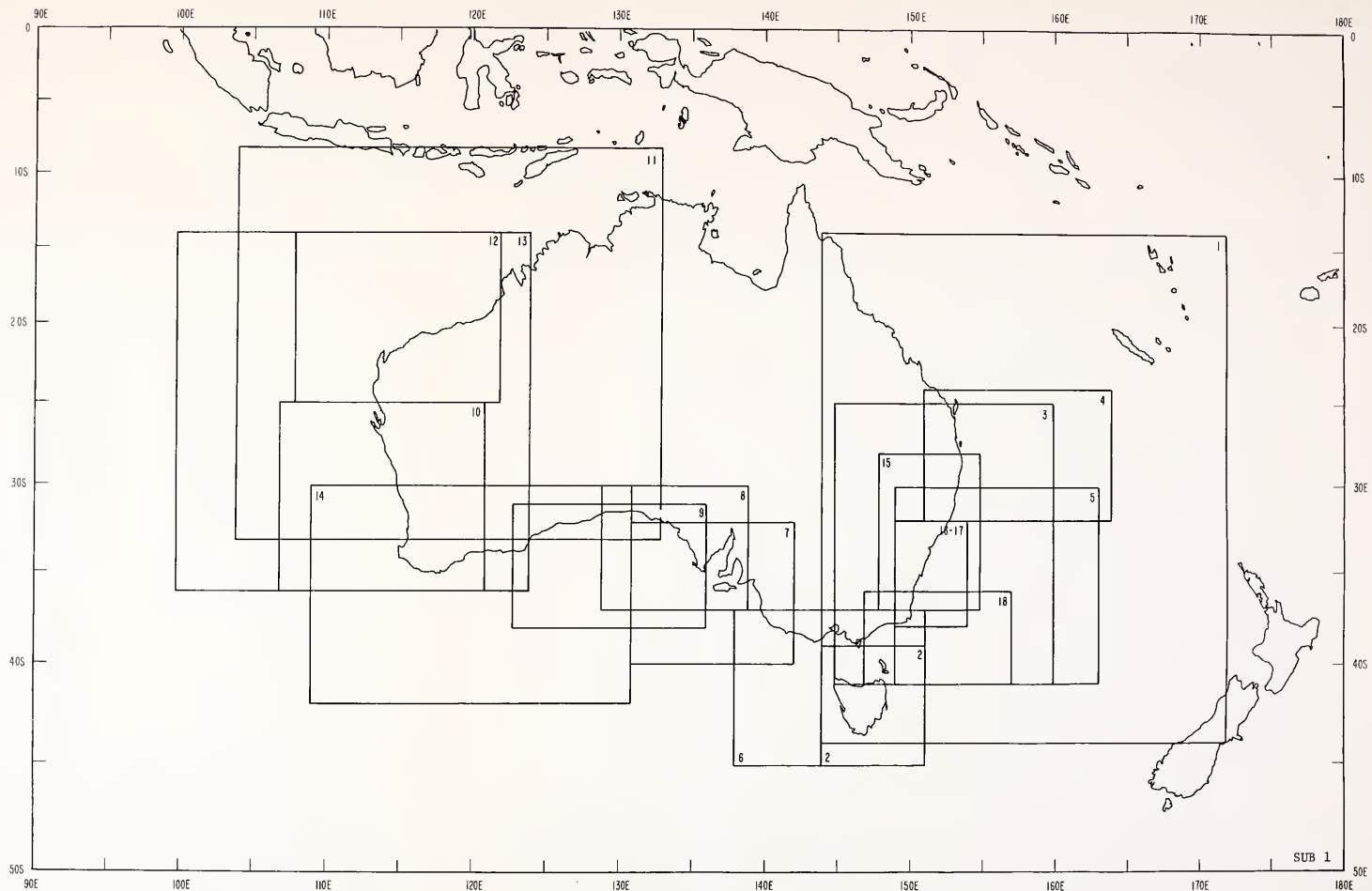






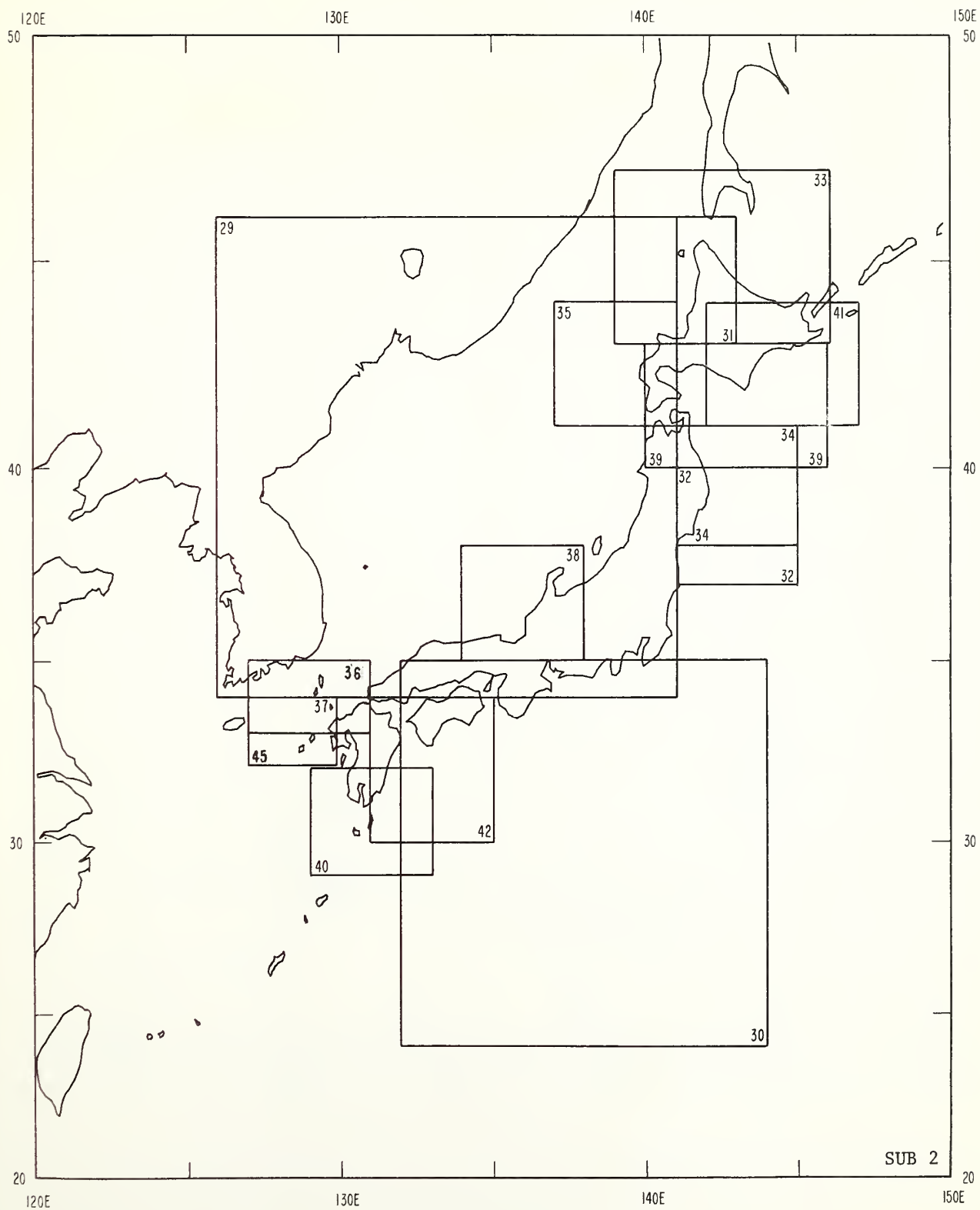


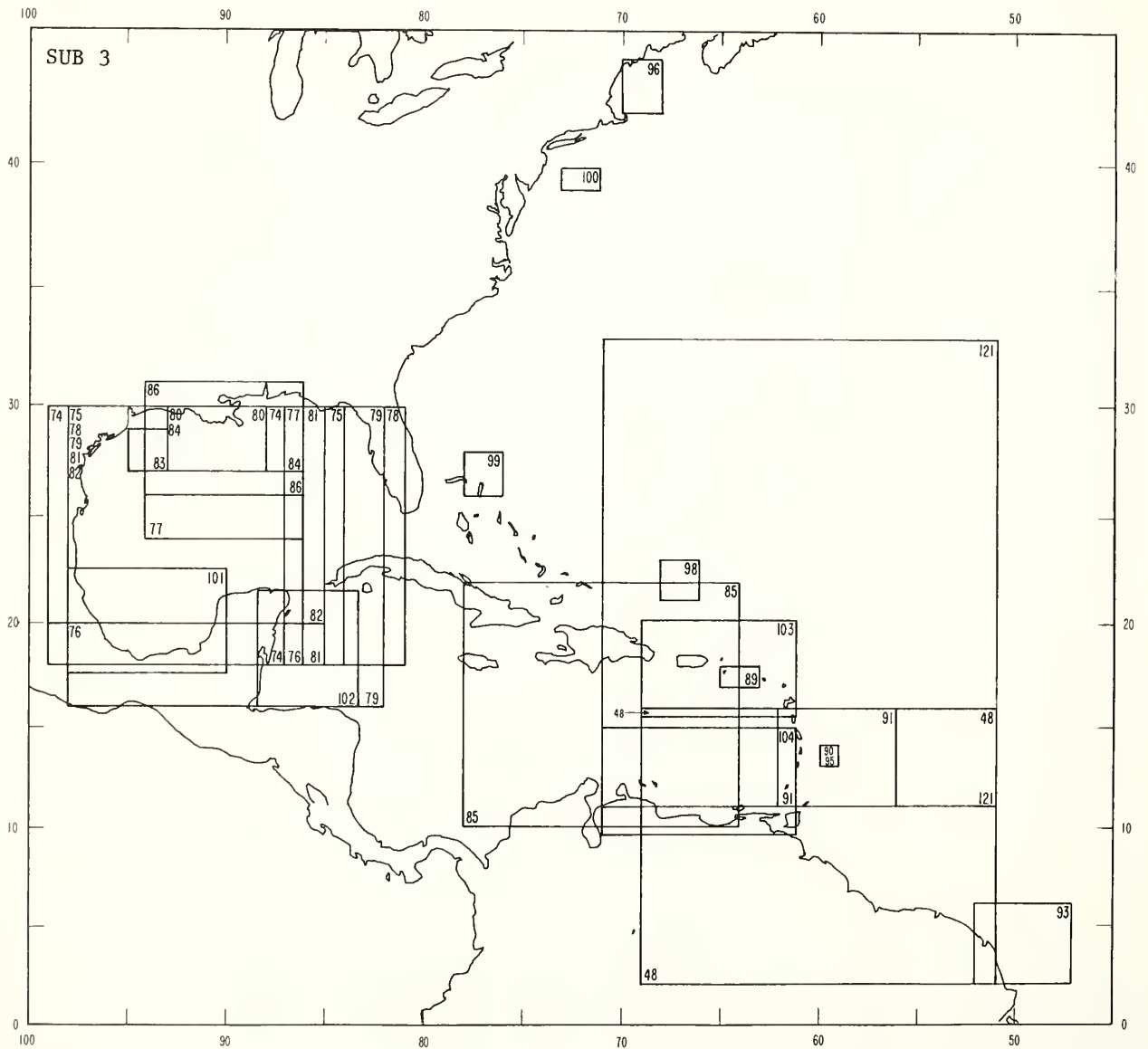


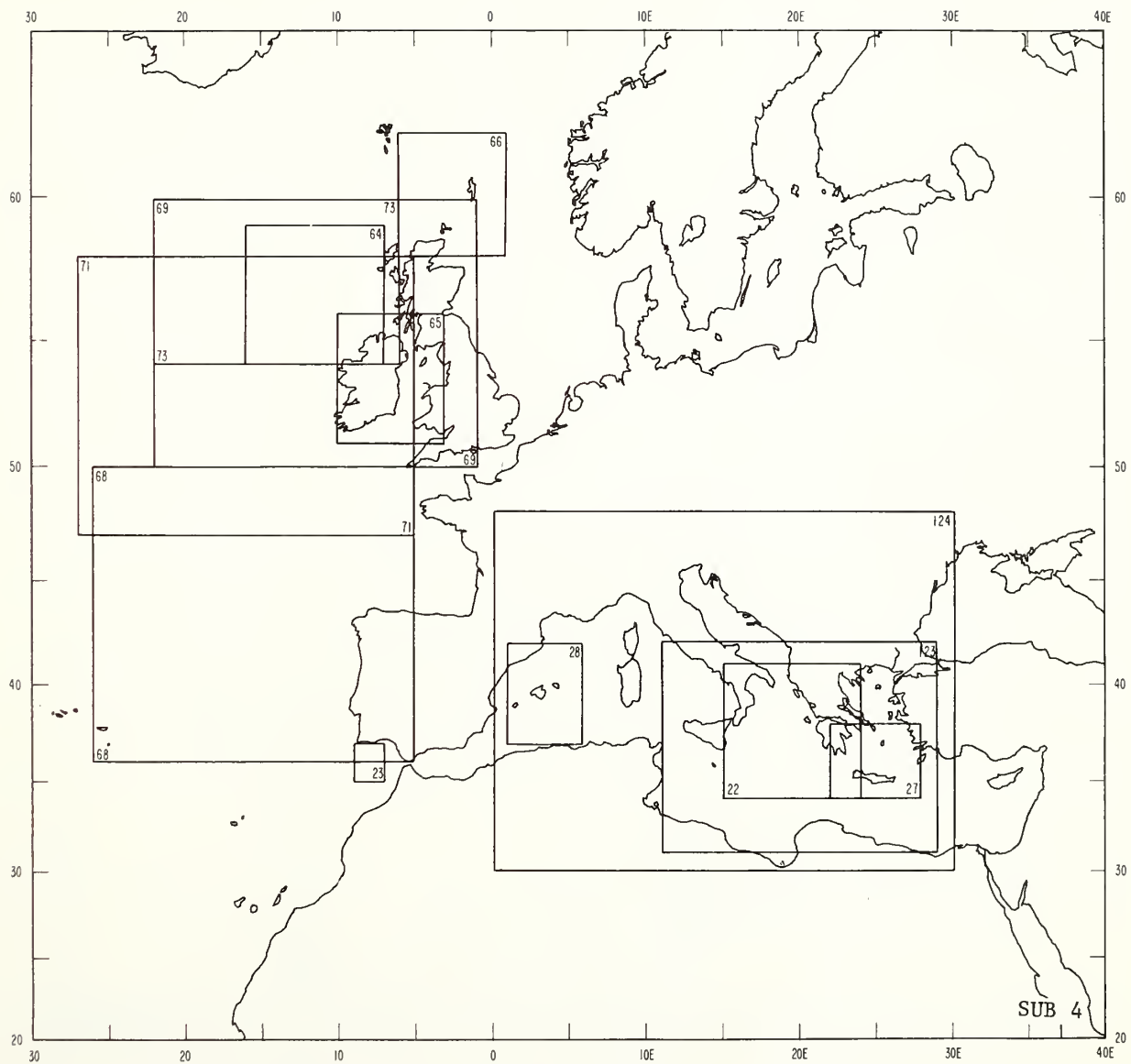


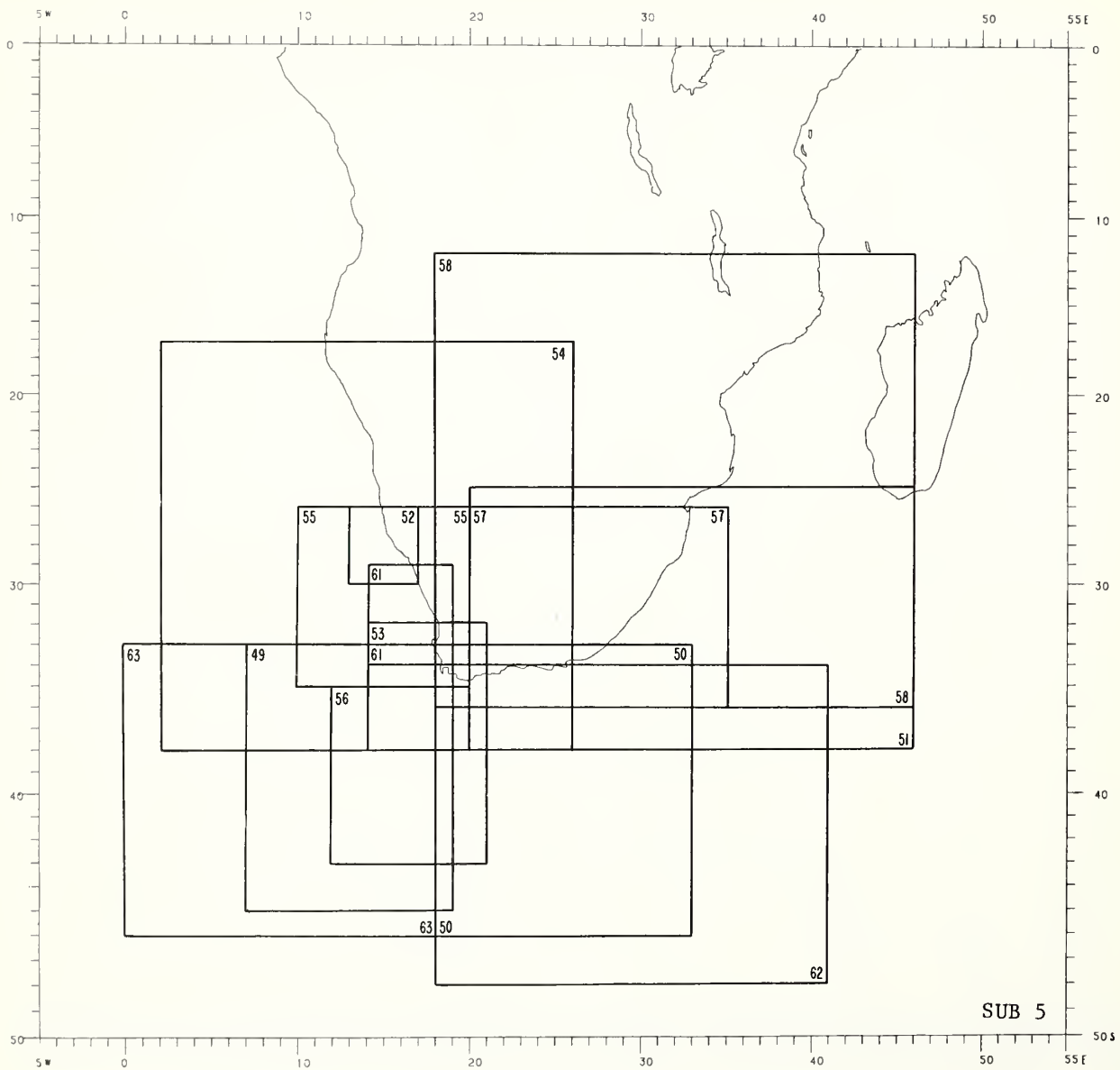
SUB 1











SUB 5





PENN STATE UNIVERSITY LIBRARIES



A000070940985